25 CENTS

AMERICAN RIFLEMAN

JUNE 1944

Mr. Robert J, Spahr
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Highland Park, Ill.
2-7-40-30-65

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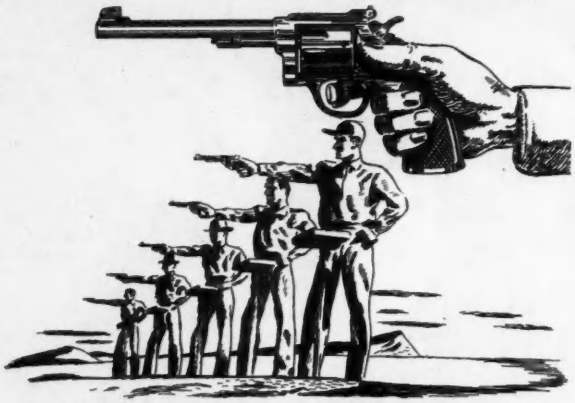

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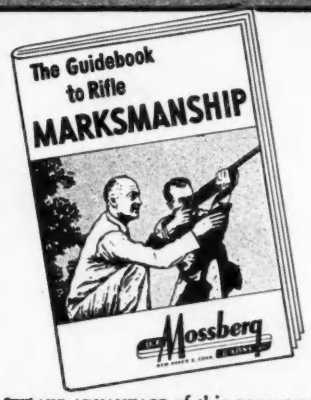

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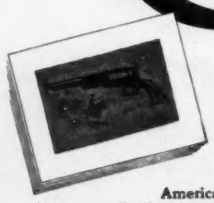

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The *Official Journal of The National Rifle Association of America*

AMERICAN RIFLEMAN

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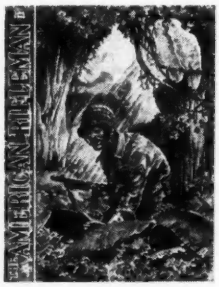

THE COVER: In times of peace, June is the bridal month. But to millions of men all over the world, June, 1944, will be just another bitter month of war—perhaps even the bitterest month of all, with battles bigger, bloodier than any ever seen. This spring, if young men's fancies turn to love, they turn—not lightly—but with a poignancy heightened by grim uncertainties. It is with this in mind that Staff Artist Jim Berryman gives us this vivid painting of love—and war—in the lush setting of a South Pacific jungle.

THIS MONTH:

"A Lot of Guys Named Joe," by RIFLEMAN War Correspondent Bill Shadel, is a glowing tribute to the infantryman and another incontrovertible document in proof of the value of expert rifle marksmanship in modern war. These, as Bill Shadel said in his first CBS "Report From London," were "quiet" days on the Italian fronts. But men fight and men die on those quiet days, too.

"Wolf!" by Stan Young, is a resumé of man's war against wolves; a war that has been practically world-wide; a war that began with the dawn of time and is not yet ended; a war in which man's mind and man's weapons have won only a partial victory over wolf cunning.

"Look Out Below!" by Captain John E. Minter, Jr. (better known to us as "Sergeant Joe McCann"), tells how rifle marksmanship is stressed in the training of paratroopers—those sky-borne commandos on whom may well depend the success of the forthcoming invasion. These men learn the hard way, under battle conditions.

"7,000,000 Bayonets," by Lieutenant Colonel G. B. Jarrett, **"The Tokarev,"** by W. H. B. Smith, and **"The Russian Degtyarov,"** by Roger Marsh, make up a group of articles on foreign military weapons that should be of interest to both Service and civilian readers. The article on the Tokarev pistol is the first discussion of this gun in American print. In fact, the gun pictured in this article is, we believe, the first of these weapons ever to reach this country.

VOLUME 92 NUMBER 6

JUNE

A Lot of Guys Named Joe 6
BY BILL SHADEL

As Ye Think 9
AN EDITORIAL

"Wolf!" 10
BY STAN YOUNG

Squirrel and Deer Rifle 12
BY FRANCIS E. SELL

Look Out Below! 14
BY CAPTAIN JOHN E. MINTER, JR.

Dry Shooting 17
BY COLONEL H. P. SHELDON

7,000,000 Bayonets 18
BY LT. COL. G. B. JARRETT

The Tokarev 20
BY W. H. B. SMITH

The Russian Degtyarov 22
BY ROGER MARSH

Gun of Destiny, Part II 24
BY GLENN R. VERNAM

Looking Ahead 27
BY THE OLD COACH

Powder Smoke 34

Dope Bag 36

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A LOT

NAPLES, APRIL 5, 1944—Of all the thousands upon thousands of words being written about this war, nothing stirs the imagination of those who know war quite so much as the simple phrase, "the front lines." That phrase brings to mind immediately the grim realities of a type of warfare that is really "total"—not a matter of spectacular missions interspersed with hours or days of rest in safe, comfortable places, but a matter of slogging through and living in mud and danger every hour of every day, sometimes for weeks on end; of face-to-face killing; of day-and-night shelling, with no rest, no safety anywhere. That's how the infantry fights. And the front lines, in the words of General Leslie J. McNair, "are simply where the infantry is!"

We've learned, here in Italy, that machines can't win a war. Planes, tanks, battleships, and big guns are all essential and the men who man them cannot be praised too highly. But war is a process of taking and holding ground; and the man who takes and holds ground is the man on foot, the kid with a rifle, with mud behind his ears, who wades swamps and fords rivers and climbs mountains to kick the enemy out of his holes, out of his trenches, out of his fortified emplacements—and keeps him from returning to them!

Call the Italian campaign a side show, a holding operation, a political or psychological *putsch*, or what you will, it is an infantry operation of incredible proportions, unbelievably difficult, involving immeasurable sacrifice and hardship for a host of American boys. What the over-all strategy is, whether it is right or wrong, is another matter. Surely such operations as those against Cassino, as the attempted crossings of the Rapido River, will go down in lesson books for future military study. As for the Anzio-Nettuno beachhead, prelanding assurances of a swift encirclement, a cutting off of enemy supplies, must be weighed carefully on the record to date. Similarly, the unfortunate announcement that Cassino had been "fumigated" by aerial bombardment was one that bounced badly. Fumigating means wholesale riddance of pests; but the infantry found plenty of "pests" still alive and active when it got to Cassino!

Our air force did, and is doing, a magnificent job. Our artillery has distinguished itself by its accuracy and its concentrations of fire to the point that it is called, by an awe-struck enemy, "automatic artillery." Our armored forces cannot be criticized; they have done the best they could do in a campaign

Here are some stories you haven't seen in the papers; stories of men who have not been publicized as heroes; stories of ordinary "GI Joes" who happen to be extraordinary riflemen. Today, just as in the past, the man with the rifle is, in the last analysis, the man who wins wars; and this straight-from-the-shoulder straight-from-the-front-lines narrative gives you glimpses of that man—the ex-hunter, ex-targeteer—in action.

of this nature. But this, here, is a doughboy's war; and not until you, at home, are made to realize the incredible difficulties of this war, and the unfaltering heroism with which those difficulties have been met, will you be able to see in its proper perspective—against the glitter of the air medals and trappings of the "special services"—the lately-adopted, unpretentious combat badge on the jacket of that Johnnie Dough from the Italian front!

(Is it possible that selection for the "special services" has been carried to the point that the Infantry was left with more than its share of "leftovers?" I wonder. But, if so, the leftovers have done right well! Not much glamour, maybe; not much swank—but plenty of guts! Writers and public alike are prone to lose sight of Johnnie Dough, slogging along in the shadow of those spectacular air duels, in the smoke of that bombardment, in the thunder of those maneuvering tanks—but he's there, taking it and dishing it out. He is the basic weapon in a war reduced here, and soon to be reduced elsewhere, to fundamentals: to the slow, foot-by-foot taking and holding of enemy soil!)

In peacetime, when we talk of rifle shooting and rifle training and rifle competition, the general public thinks it's just the hobby of a few; a small-time sport. Even in wartime, it takes time and battle experience to get down to the fundamentals. But now, just as in World War I, we're learning that riflemen *count*, and that too much emphasis cannot be placed on their training. For battle riflemen aren't made in a day, nor even in a few weeks on the range.

Here are some stories you haven't seen in your daily papers—because these men are not heroes; they're just good all-around riflemen:

On Mt. Castellone, one day in February, a two-hour Boche barrage heralded an attack by two German battalions on a ridge held by one platoon of one company of one battalion of the 36th Division. Two platoons were sent up to help meet that attack: less than a Company, riflemen, with a few '03 grenade launchers and a supply of grenades for close quarters—against two well-armed German battalions.

Platoon Sergeant H. C. Pruett, of Brownwood, Texas, was in charge of one of those two supporting platoons. The first platoon was already engaged when Pruett arrived. The Jerries had some four hundred yards to cover. Pruett threw his men into the fight as riflemen, in the prone or kneeling position according to each man's location. As riflemen, they started picking off Germans. The Boche were coming on in groups of three or four, running, ducking, hitting cover, rising to charge again. Pruett himself knocked down seven out of five different groups, getting one and sometimes two as each group made its short rush forward.

"The guys all around me were doing the same," Pruett says. "We made 'em pay for that yardage! But a few finally got up to within about fifty yards of us and we started heavin' gre-

OF GUYS NAMED JOE

By BILL SHADEL, *Rifleman War Correspondent*

nades. Jerry really hates those things! I thought at first they were coming right on in; but they turned, finally, and started running back down the hill. We all had our fun then! You'd hear guys yelling, 'I got that sonuvabitch!' 'Me, too! Lookut him roll!' Just the same, a lot of 'em kept going and, when they got out about three hundred yards, I picked up a sniper's rifle. While they were comin' up the hill at us, I was mighty proud of my M1 (Garand); but the old Springfield, scope-sighted, is a honey for long-range shooting! I got four more Jerries, at three hundred yards or better."

That's good shooting. Sergeant Pruett had no fixed opinions as to which weapons were best; different weapons, he thought, fitted different conditions. Once, on another hill, in the extreme cold of a mountain dawn, Pruett's platoon found that half of their M1's wouldn't fire and they had to break up a German attack with three '03 rifle grenade launchers and with

hand grenades. That was a hot spot for Pruett and he was thankful the '03's would still work, for their rifle grenades were effective. "Must have had too much oil on the M1's," he suggested. But he had some very definite opinions about marksmanship! "It pays off," he said. "Every man ought to know his rifle, and how to shoot it. Hunting, back home, helped me. I've heard a lot of fellows say the same."

Sgt. J. B. Johnson, of Gustine, Texas, put the whole story of marksmanship in a few words when he said, "I don't want a fellow around me that can't shoot! He's no help, and he's just usin' up ammunition—which, around these mountains, you can't carry enough of, or get more!"

Yes, it pays. One hundred and thirty-two dead Germans were found in front of that ridge position. In the three defending platoons, only three men were hit with small-arms fire.

Sergeant Bondurand was a Pfc. at the time of the Mt. Lungo engagement. He had a Springfield '03, scope-sighted. Sergeant Johnson, already mentioned, was Communications Sergeant at that time and was equipped with a carbine. Incidentally, Johnson got two Germans in this engagement at 200 yards; but Bondurand, according to Johnson, was again stealing the show. For one reason, Bondurand was firing first, before the Germans came within range of the carbines.

A German machine gun opened up from about 450 yards providing covering fire for a force of Germans coming up the hill. Bondurand, with good cover behind some rocks, spotted the gunner, fired, and killed him. The assistant gunner started to take over and Bondurand got him. Another Jerry moved up to the gun and another direct hit changed his plans. Shortly, two other Jerries—riflemen, Bondurand thought, who were either trying to take over the gun or merely change positions—showed themselves and Bondurand killed both of them. Fantastic? Well, it might sound that way if you hadn't heard these none-too-talkative fellows testify to this and other exploits of Sniper Bondurand. When the machine gun quit, the Germans gave up their attack.

We talked, too, about the "crack and thump" schooling of the troops after they got overseas. We were anxious to have a previous enthusiastic story on this confirmed. Sgt. Mitchell Brown, from Tennessee, said it was good stuff. "Damn good training, one of the best things we learned before going in at Salerno." We also asked about the deployment of Germans coming on for an attack. Brown offered the suggestion that the Germans often keep officers and noncoms in back of the

groups, just to be sure the men were all out in front and that there would be no stragglers.

At the Anzio beachhead we visited a company of the Third Division, just out of the lines for two days in the so-called rest camp (about 3,000 yards from the front line). We managed to get two battle-hardened regular army sergeants to talk a bit. Sgt. B. V. Reynolds, of Glenville, North Carolina, top kick with eight years of army, called on another old-time army sergeant, Platoon Sergeant E. L. Dean, of Portland, Oregon, to help him out. Those boys don't talk much about their deeds but you can easily tell they're the kind to act. Sergeant Reynolds claimed to be no great shot; had merely qualified Expert every year for eight years.

Said Sergeant Reynolds to Sergeant Dean, "Aw, go on and tell him about your sniping up there the last few days," (referring to the beachhead front lines).

Said Sergeant Dean to Sergeant Reynolds, "Tell him yourself about that time in Sicily when you saved my neck with your own sniping."

This was long ago, just after the Licata landing in Sicily. Their outfit had taken some 400 prisoners since the landing. They expected another group of some seventy-five Italians to come over and give up, but those Eyeties had other plans. They were setting up a machine gun, apparently establishing a point of resistance.

Reynolds' lieutenant and Sergeant Dean took three men each to sneak up on the Eyeties through a little ravine. Reynolds and three riflemen were to give them covering fire if it were needed. Soon after the men had started out, Reynolds saw the Italian officer and a noncom leave the group around the machine gun to move around in back of Dean. The distance was about 500 yards. Reynolds got into a hasty sling, took a kneeling position, and got off one shot. The officer was hit and went down hard. The noncom beat a hasty retreat to his group, arriving there just before Dean came up on them and took them all prisoners.

Sergeant Dean's experiences at the beachhead would make a chapter like one of McBride's in his "A Rifleman Went To War,"—that is, if you could get him to tell about it. We learned about one job with a sniper's rifle; one incident out of many days of the same type of work.

During the night, the Jerries had set up a machine gun covering a drainage ditch between two slight knolls on that open front-line area. Dean's men were pinned down. Whenever they made the slightest move, that German machine gun would open up. Throughout the early dawn, an exchange of machine gun fire went on—first, a burst from the rapid-firing German LMG, then the laconic answer of the American weapon: "rat-ta-tat-tat—six bits."

Dean decided to get rid of the annoyance and, over a long period, managed to crawl to a point where he could spot the Boche emplacement. He figured the range was at least 900 yards. He had already set his scope-sighted '03 for 500, 700, and 900 yards, so he made his adjustment. He let things quiet down, looking through his scope for the Jerry machine gunner. He wiggled into the sling during that period of waiting. Finally, his own gunner gave the old "shave-and-a-haircut—six bits," and Jerry replied with a burst. That burst gave Dean his target.

Dean let off one shot and then another, fast. He doesn't know—for sure—that those shots were hits. All he knows is that the machine gun was silenced for the day, and that a patrol that night found the gun gone.

Another time, Dean flushed a German machine gun and then hit one of the gunners, running, at 800 yards. It was an accident, he claimed. But men who saw it and who knew Dean's record agreed that there was skill mixed into it.

In the opinion of those two sergeants, no other training is as essential as range practice. They also advise some kind of practice on running shots, action targets, to provide the equivalent of their own previous hunting experience. Reynolds spoke of the difference in marksmanship he had observed between old-timers of his company who had been shooting over the army ranges for years and the replacements who had picked up what they could in basic training. Some of the credit must go to other phases of army training: to discipline, experience, working together with their own fellows on many problems and maneuvers; but Reynolds was sure that the best insurance for cool behavior in battle lay in the confidence trained men have in their ability and in their weapons.

These are riflemen stories; perhaps not average stories—for once you inquire about a certain angle, you are likely to get the incidents that stand out in men's recollections. But whenever we inquired, in a company or in a regiment, about rifle incidents, in nine out of ten cases, our inquiries ended up with a former hunter, an old-time army man, or a target-shooting fan. These incidents are no reflection on the average ability of riflemen in the line. All of them have had training. All of them have confidence in their rifles. These are just some of the better jobs that are being done by riflemen who have that added edge through previous marksmanship experience.

"Headquarters speaking. Any action in your sector? If there is, a Correspondent named Shadel is coming up. He says he's bored."

Our riflemen, all of them, have proved their worth in this as in all our previous wars. They deserve all the credit you can give them. They deserve a share in the spotlight of public attention and consideration. Once our attention is on them, their deeds will thrill us; for American riflemen today are living up to the finest traditions of American fighting men. They will continue to do so if they are properly trained. That can be done, in this writer's opinion, only by civilian as well as military rifle practice over the years.

An Editorial

As Ye Think

ONE of the most amazing, and perhaps one of the most illuminating statements ever made "on the record" by a member of the Cabinet of a President of the United States was made by United States Attorney General Francis Biddle in Federal Court at Chicago on May 1, 1944. It was amazing because it came from a man born, educated, and raised to high office in the republic which has lighted and tended the torch of democracy for the modern world. It was illuminating because it proved *again* that the "I am all wise, hence I should be all powerful" complex attacks the American politician and reformer just as it does the German, the Jap, and the Italian.

"Particularly in time of war the court should not substitute its judgment for that of the Executive," was the Attorney General's advice to the Chicago Federal Court. The matter of "judgment" did not concern the moral, ethical, social, or political questions involved in the Montgomery Ward case. The issue was purely an issue of *law*. The issue was a determination of the rights and powers of the Executive Branch under laws passed by the Legislative Branch—a question, under the American Constitution, to be determined *only* by the Judicial Branch. Under these circumstances the prosecuting official of the Executive Branch told the Judicial Branch that it should not perform its Constitutional function unless it was willing to rubber-stamp any act of the Executive, "*particularly* in time of war." Does that phraseology imply the belief that the judgment of the Executive Branch should *generally* be unquestioned and that such questioning is merely *more* heinous in time of war?

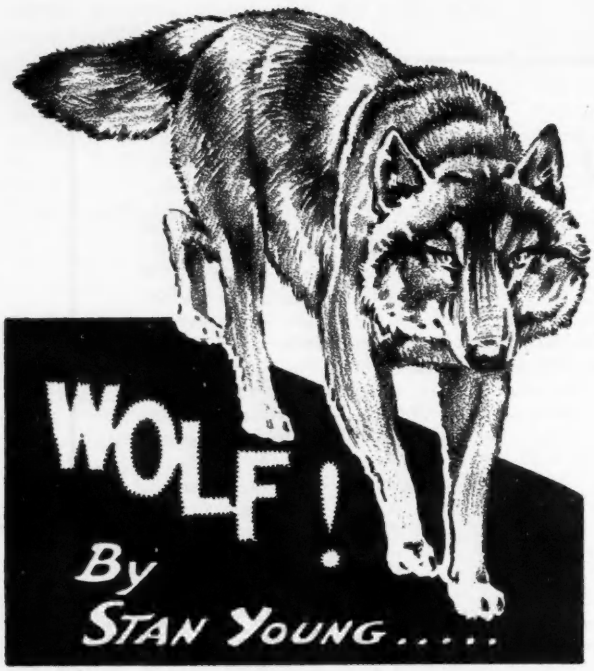
What does all this have to do with the problems of the shooter? Just this—every proposal that has ever been made to require the registration of personally owned firearms has been accompanied by the statement that "Honest citizens need not worry. If the enforcement agencies are given the power to control guns, they will never use that power to disarm reputable citizens." How often have we heard that siren song? How often have we seen that promise scorned after the law was passed?

During the wave of hysteria to provide "wartime powers" to the state and national executive branches, we warned of the dangers of unlimited delegation of the legislative powers. Few listened. Many Governors today have almost unlimited powers over persons and properties within their State borders. Fortunately those powers have been little used, but if the doctrine advanced by Attorney General Biddle is accepted by the American people there is no reason to believe that the Executive Branches of State governments will not also accept and apply it.

We want no part of the wrangling, the low comedy, the pettishness, and the "You slapped me, so I'll slap you back" which has characterized the Montgomery Ward case. We leave judgment as to the moral, ethical, and economic angles of the case to those familiar with its multitudinous details. However, judgment as to the *legal* aspects of *any* matter in the constitutional democracy for which America is fighting lies in the hands of America's courts. To accept any other situation is to open the door to those to whom Attorney General Kenney of California referred when he said, "Our efforts of fifty years in disarming the public may have proved futile." (AMERICAN RIFLEMAN, May, 1944.)

We said editorially in July, 1942, "Through all recorded history the course of human events, as they pertain to government, has followed a seemingly inexorable cycle; first, government by *laws* adopted by a free voting citizenry; next, government by *regulations* issued by a bureaucracy granted its powers by a lazy electorate; then, government by *edict* announced by a dictator permitted to assume his powers by a degenerate, quarreling, self-seeking bureaucracy * * * Americans are dying today as they died in 1865 and in 1776 that the 'government of the people, by the people, for the people, shall not perish from the earth.' Their deaths *can* be in vain. We can *win* this war in the name of democracy, yet *lose* democracy."

To *fight* for democracy is not enough, people must *live* democracy. The democracy which has built America and brought the light of hope into the faces of men is not the Capitol and the Congress, or the Supreme Court Building and the Justices, or the White House and The President. These are *symbols*. *Democracy is a way of life.* It is induced by *a state of mind.* The state of mind which thinks the reputable citizen should be armed only at the pleasure of the police and the state of mind which thinks the judgment of the courts should be subjugated to the judgment of the executive are brothers under the skin. They accept the theory that government by *men* is preferable to government by *law*. They accept the theory that he who governs is necessarily wiser than those who are governed. Down that road lies the death of democracy. When men cease *thinking* and *living* democracy, democracy is dead, no matter the label under which those men are governed.—C. B. L.



A HERD OF ANTELOPE was feeding on the slopes of the limestone cap-rock formations of Butler Pasture, southeast of Pueblo, Colorado. This was on a late spring day in the early '20's when I was hunting—for wolves, not antelope. But that herd of antelope was to play its part in a demonstration of wolf cunning equal to any I have ever seen; the cunning and sagacity that has caused the wolf to loom larger in the annals of human history than any other wild carnivore.

Those antelope stopped feeding suddenly and stood, heads up, each animal's attention fixed on a common target. I looked, and saw two slinking, dog-like shapes far to the right. "Coyotes!" I thought, and dropped into a convenient arroyo to await and watch developments.

But I was wrong. The two prowlers were wolves, not coyotes; and, because neither they nor the antelope had seen me, and because the wind was in my face, not theirs, they played their game almost to the finish. It was a double game: the wolf against his prey, man against the wolf; the game that has been played to all possible endings down through the centuries.

The wolves, seeing that they were discovered, sprawled out on their bellies, watching the prey, looking the situation over. Decision reached, the bitch stood up, yawned, and trotted slowly back in the direction from which they had come. But there was deception there! She veered, not suddenly but gradually, swinging upslope toward the herd. Moving, she fixed the antelope's attention on herself. They watched her carefully, turning slowly to follow her progress with their eyes . . .

The dog wolf sprang suddenly, running, a low, swift streak aimed straight for my arroyo! The strategy was obvious. Let him reach that arroyo—and he would have reached it unseen, now that his mate held the attention of the herd—and he could follow its course to a point on the very flank of the herd; a point from which he could strike! And when he reached that point, the bitch would be above the herd, ready and well-placed to flash down and in to her mate's assistance when needed.

But there was another hunter in the game; a hunter with something less than a wolf's patience! That wolf streaking almost straight toward me was too tempting a target! My .303 Savage cracked and the wolf—

I wish I could say, "The wolf went end over end, like a shot rabbit, my bullet centering his chest." But I can't. I missed. My slug cut dirt just under him; he veered—and although he'd been a streak before, what I saw now was really running! I got more dust, but no fur; and when the smoke cleared, the scenery was bare of either wolves or antelope!

Just the same, it was an experience I shall not forget! I had seen wild cunning at work; the sort of cunning that has given the wolf a role more important in relation to human welfare than that of any other predator, if one considers the world as a whole.

At one time, the geographic distribution of wolf population was greater than that of any other land mammal. It was dense throughout Europe, over most of Asia, and over all of North America from the tablelands near Mexico City to the most northerly tip of land known, some 300 miles short of the North Pole. This wide dispersion brought him into conflict with most of the peoples of the world, not (usually) as a menace to human life itself but as a destroyer of domestic stock, so cunning and so insatiable that constant warfare had to be waged against him.

In this long war, mankind has "given the wolf the works," "thrown the book at him," used every conceivable weapon and method. We've trapped him in pits, with steel traps, and deadfalls. We've built ingenious devices of set guns by which he might kill himself. We've poisoned him, shot at him with guns ancient and modern, placed bounties on him, chased him with dogs, killed him with clubs and arrows. Man has survived that war; so has the wolf! His ranks are thinned, it's true. He has even been driven out of a great part of the globe. But he is still to be found, sometimes in considerable numbers, in wide areas of Asia and North America. He seems, in fact, to be making his last stubborn stand in Mexico, Northern Canada, and Alaska, holding out there better than he did in Europe.

Back in ancient Greece, 2700 years ago, men were even then concerned with the problem of the wolf. Then was instituted the first recorded measures for wolf control. The wolf was a Biblical figure of considerable note. Costly measures, including hundreds of different bounty acts, mark the continuation of the war between mankind and the wolf right up to the present day. The first bounty act in North America was adopted by the colonial lawmakers of Massachusetts in 1630. Two years later, Virginia passed a similar act. Wolf bounties are in force today.

Our early colonists killed wolves in pits; the same sort of pits used in still earlier antiquity by men against the woolly mammoth. Our colonists brought the idea from Europe; but the knowledge of the pit as used against game was here before them, in the lore of the Indians; particularly the Indians of the western plains, who used it in taking various kinds of game.

Since time began, mankind has fought an unending war against wolves—and, in spite of man's much-vaunted ingenuity and skill, in spite of pits, poisons, traps, and guns, the wolf still survives. Swift and wily, eternally alert, he is a foeman worthy of the best hunter's skill.

There was an Indian-dug pit near the present town of Bernalillo, New Mexico, dug near the close of the sixteenth century. This pit differed very little from those dug elsewhere in America. Generally, they were about ten feet deep, five feet wide at the top, possibly thirty feet wide at the bottom, covered with grass or other camouflage. Indians, like the cave men and like more recent pit diggers, often drove stakes in the bottoms of such pits, sharpened those stakes at the top so that game falling in would be impaled. Bait was sometimes used, and sometimes the pits were merely dug in game trails and left unbaited. Such pits were used, and are still used, in Africa.

William Byrd, colonial Virginian and founder of Richmond, stated, in 1728, "The inhabitants hereabouts take the trouble to dig abundance of wolf pits, so deep and perpendicular that when a wolf is once tempted into them he can no more scramble out again than a husband who has taken the leap can scramble out of matrimony!"

The wolf was a perennial problem on the cattle ranges of the American west. The unwritten rule there was, "Shoot first; ask no questions! But don't count your wolf till you stretch him!" In 1915, the Federal Government initiated a program to co-operate with the cattlemen in the control of large wolves and other predators.

This Federal program involved the employment of "government hunters." These were often sons of early western settlers, well-versed in wolf lore, and expert riflemen. While these men depended mainly on trapping, they frequently resorted also to "still hunting." Each had a favorite rifle which he considered superior to any other for the purpose. Most of these were high-powered rifles with flat trajectories and accuracy good for at least 300 yards. Among them were the .270, .30-'06, .250-3000, .300, and .303; and some of the wolfers used the ubiquitous .30-30, the .25-20, or the .22 High-power. Most of their rifles were equipped with telescope sights of from two- to three-power magnification, allowing a wide field of view.

"Still hunting" is done mainly during the spring, the denning season of the wolves. The young wolves are born during April, May, and June. At this season, by watching carefully the country surrounding known den locations, many opportunities may be offered to the expert hunter and shot. "Still hunting" is used in our own West, and also in Alaska in curbing losses of reindeer and caribou herds.

Expert hunters and skiers stalk wolves, in winter, by following their trail on skis. Among the most expert at such methods was Bill Cozzens, of Idaho. Following a snowfall in areas where wolves were known to be, Cozzens would don skis and cut across country. Finding tracks, he would garb himself in an outer garment of white drill, exactly as do our present ski-troopers. So dressed, nearly invisible against the snow, silent and swift on skis, Cozzens was able frequently to stalk within rifle range and make his kills.

Wolves travel fast and far, however, and hunting them by this method requires stamina and expert skiing. Shots so obtained may be standing shots at still targets, or at targets running broadside, quartering, or straight away. Cozzens liked the quartering or straightaway shots best, for he was able to figure elevation better on them than on crossing shots at such fast-moving targets.

Until recent years, and sometimes even today, wolves (and their lesser cousins, coyotes) are hunted in some parts of the West by means of "drag circles" of men (mounted or on foot) and dogs, forming great circles enclosing sometimes as much as three or four counties and closing inward, driving all game before it to a common center. Good bags are sometimes taken in this way, but the method by no means sweeps the country clean. Wolf cunning enables many animals to break through the circle or to lie doggo until the drive is past.

Wolf cunning, too, has made poison a weapon only temporarily effective against wolves and always dangerous without expert supervision. The same holds true against the use of "set guns." Set guns—shotguns, rifles, or handguns concealed in game runs and so baited that an animal taking the bait is shot—were commonly used and legalized, within certain restrictions, in colonial times. They were used, too, in the West; but there only in the wildest and least-traveled areas. But the set gun is no respecter of persons, animal or human. Poisoned baits may kill domestic animals as well as wild, and set guns are deadly dangerous not only to domestic stock but to man himself.

The best weapon so far found against the wolf is the rifle. Modern guns, modern loads, in expert hands have played an important part in swinging the tide of this history-long warfare against the wolf and in driving him out of all but the most remote, least thickly populated areas. There, he is worth seeking. He can't dodge a well-aimed bullet; but he is a fast target, a wily evader, and foeman worthy of a hunter's skill!

Squirrel and Deer Rifle

By FRANCIS E. SELL

A RIFLE WITH NO APPARENT RECOIL, yet powerful enough to kill deer cleanly at all woods ranges, accurate enough for off-season shooting on ground squirrel or other vermin—that sounds like a rifleman's dream! But I am using such a rifle for most of my woods hunting—one of the best-designed rifles for snap shooting that a hunter ever had in his hands—the Model 64 Winchester, caliber .25-35.

To admit a liking for this old, rather obsolete caliber has a tendency in some circles to date the hunter. So I hasten to add that I am not exactly a graybeard, nor am I unacquainted with the .30-'06 class of rifle. However, as the years roll by, I find less and less use for that class of rifle at the average short woods ranges. Of course, where the open season on elk and deer coincide and where both elk and deer are found on the same range, I carry my .348 Winchester. In fact, for any hunting where the average shot is taken at 200 yards, something more powerful than the .25-35 is indicated. But for the heavy cover, the .25-35 with the 117-grain bullet is my choice.

It is true that, to one used to the more powerful calibers with muzzle energies around 2,900 foot-pounds, the .25-35 lacks just about everything. It has only 1,350 foot-pounds of muzzle energy; 1,010 foot-pounds at a hundred yards. It is slow, very slow, when measured against the velocities of some of the hot numbers. The 117-grain bullet shags along at only 2,280 feet a second!

But for heavy cover the low velocity is one of the rifle's virtues. Velocity for the sake of velocity has little to commend it. High velocity has its place in long-range shooting, but in woods shooting it is apt to be more of a handicap than a help. In the woods, the three cardinal virtues a bullet must have in order to kill cleanly are: expansion, penetration, and the ability to cut through brush. Drive a bullet fast enough to give the explosive effect and nerve shock which the high-velocity, comparatively light bullet will give at speeds beyond 2,600 feet per second, and it is no longer a good woods bullet. It is apt to start expanding on contact with brush in front of the target, creating a large surface wound on the game but failing to penetrate deeply enough to insure a quick kill. This is especially true of those quartering shots where the game is moving away from the rifleman. On a shot of this nature, the bullet must enter well back toward the flank, ranging forward to penetrate the vital lung area. To do this, the bullet cannot be driven at a very high velocity.

A hunter and his rifle form a close relationship. That relationship is much more important than mere ballistics. In snap shooting, whether the game is deer or ground squirrel, the two essential factors in the rifle are balance and recoil. Add to this that certain intangible something which causes the hunter to feel that his rifle is not a separate entity, but rather an extension of himself, and you have the three factors essential to the making of a really successful woods shot.

On paper, a rifle having a remaining energy of 1,900 foot-pounds at one hundred yards would be superior to one having an energy of 1,200. But in the game fields the answer may be just the opposite. The rifle having the lesser energy may make cleaner kills. The relationship of hunter to rifle is the determining factor, and one that cannot be reduced to a set of figures in a paper formula.

I have found that I can do more accurate snap shooting with the .25-35 than I ever could with the .30-'06, especially in the case of a second or third shot. This, when time is measured in split seconds, is highly important. Moving game in the woods establishes a time limit for the kill. The hunter must get his shots off, and get them where they belong, or he loses the game.

The .25-35 has a free recoil of 4.5 foot-pounds. The .30-'06 has a free recoil of 17.5 with the 180-grain bullet. Regardless of how seasoned a hunter is to recoil, he will be slowed down for a second shot by a rifle having a recoil heavy enough to cause the barrel to jump well above the fleeting target. Often the hunter hasn't time to assume a steady standing position. Perhaps a deer is put up to his left. He swings around and snaps a shot at it. Off balance, he is doubly vulnerable to the recoil of his rifle. The sights jump far from the target. By the time he is on the target again much valuable time has been lost, and he is hurrying. His rhythm has been broken. He is no longer sure. The second shot is fired with a great deal less accuracy than the first. There is every possibility that, if it hits at all, it will hit a nonvital area, wounding rather than making a clean kill.

Seeing game so wounded and lost, many riflemen turn to heavier calibers, trying to find that mythical rifle which will anchor them every time, regardless of where or how they are hit. It just can't be done. The answer, insofar as there is an answer, lies here: give the man a rifle with which he can shoot accurately in the woods. A very few may find that they can do this with the .30-'06 type of rifle in spite of heavier recoil. Most hunters, however, will make more clean kills and wound less game with a rifle which hasn't quite so much kick.

Several years ago, I had the Winchester factory put a .25-35 barrel on one of their Model 64 deer rifles. The .25-35 barrel is slightly heavier than the .30-30 barrel in this model, putting more weight in front. It has a heavier forearm than the standard model, giving plenty of weight out front where it belongs in a snap-shooting rifle. After removing considerable wood from the base of the stock, the rifle tipped the scales at an even eight pounds. I put on a tang peep sight with an eighth-inch aperture, then slanted the gold bead front sight slightly in order to catch the sky light and the rifle was ready.

Firing this rifle offhand, the recoil will move the barrel upward only about four inches. Considering the vital area of a deer as a twelve-inch target, it hasn't enough recoil to put the front sight entirely off the mark. From the time the first shot is fired until after the second or third, the game is still in the sights. The act of loading and firing a rifle of this weight will not disturb the inertia of the piece enough to move it off the target. The only rifle which I have ever used that is comparable to this one for snap shooting was a Model 94, full magazine, twenty-six-inch-barrel Winchester in the same caliber.

I used this Model 94 rifle in killing my first deer. It was on the ranch where I spent my summers between terms of school. One summer I killed three deer with it, besides dozens of silver-gray squirrels. My rancher host used it entirely for black bear and deer. At that time the .25-35 had a velocity of just a

trifle under 2,000 feet a second. The bullet had a flat nose, with considerable lead exposed. It had the happy faculty of penetrating and holding together at all hunting ranges, blossoming out to a nice .45 caliber on impact.

It was also one of the most accurate hunting rifles I ever had in my hands. During the autumn turkey shoots, it brought in two halves of beef and five turkeys, in the hands of my host. This shooting was all offhand at hundred-yard ranges, one shot fired, the shot closest to center taking the prize.

One evening my host and I were watching an oak grove. Deer were feeding there on the fallen acorns, and it was a perfect setup for venison. Just before dusk a black bear walked out into the glade, about 150 yards from us. The rancher swung the rifle around, took a rest across his knees and fired. The bear dropped as if it had been poleaxed. The bullet had entered fairly high on the shoulder, ranging through and breaking the off shoulder, leaving an exit hole half an inch in diameter. The bear dressed 320 pounds, fairly large for a black.

At that range, the energy of the 117-grain soft point was considerably less than 600 foot-pounds. It gave good penetration and expansion, however, killing cleanly. Of course, one swallow doesn't make a summer. Such a clean kill could have been an exception. But when it has been repeated time after time, a norm is indicated.

On deer it was the same story. Those wounded could be accounted for by the bullet not striking a vital area. A paunch-shot deer is going to move, will need tracking and a finishing shot, regardless of what type or caliber of rifle is used. I have seen them wounded with just about everything from the Magnums down. On each occasion, where the game has been recovered, the deer was hit in a nonvital area.

It just about simmers down to this: a rifle which has enough penetration to open the game up with a bullet that will expand to .40 or .50 caliber will kill cleanly. The rest is up to the hunter. No amount of additional power will make clean kills unless the rifleman has the necessary skill to shoot effectively. In this connection, it is rather interesting to note that the man who was chiefly responsible for the design of the splendid long-range .270 Winchester, himself uses a lever-action .32 Winchester Special for hunting deer in the woods.

I sight in my woods rifle to hit the point of aim at a hundred yards. This throws the 117-grain bullet one inch above the line of sight at fifty yards, and 7.5 inches below point of aim at 200 yards. At the longer ranges the front sight will subtend enough to bring the point of impact a very few inches from the point of aim. But long-range shots are extremely rare in the woods. Although 200-yard shots are sometimes made in logging slashes or similar openings, the average woods shot is probably around sixty yards.

At the longer ranges the shooting is more deliberate. The game is usually standing or moving very slowly. It is much easier than snap shooting at fast-moving game in the woods. A careful shot can kill game the size of deer at 200 yards with the .25-35, but at these ranges a more powerful rifle is needed.

Last season I took my deer with the .25-35. This buck dressed 189 pounds. The range was forty-two paces. I was moving slowly along a deer trail, skirting a steep wooded slope. It had been raining most of the forenoon, but had stopped about eleven-thirty. The tracks which I was following had been made since the rain. They followed the main game trail until it swung upward towards the ridge. Here the tracks left the trail, angling down towards the sheltered canyon. The wind was shifty, coming in gusts from just about every point of the compass. I knew if I got a shot in the brushy cover it would be a quick snap shot. Scanning each bit of cover, I moved cautiously down the hill, cutting the tracks just often enough to know the deer was still traveling. I was almost at the foot of the hill when I put the deer up.

It came out from under a low-grown hemlock, running upward towards the top of the ridge. For a space, it was covered by the screening ferns. But as it crossed a small section of forest which was comparatively free of underbrush, I held well back of the shoulder, caught it just as it touched the ground, and squeezed the trigger. It fell over backwards down the hill, rolling about twenty feet to lodge against an alder tree. It was killed instantly.

The Core-Lokt 117-grain bullet had ranged forward into the lung area, coming out just in front of the off shoulder. It had expanded to about .45 caliber, creating a well-drained wound, leaving good prime venison with little bloodshot meat. And that, incidentally, is another of the virtues of a slow-moving bullet for woods hunting. The game is left in better condition for the table.

Of course, the .25-35, like any other deer rifle, must have plenty of ammunition run through it during the summer if it is to kill cleanly in the autumn deer woods. I use it to the extent of four or five hundred rounds snap shooting at ground squirrels; and when the season is open on the silver-gray squirrels, it is the .25-35 which I take along. I have found that I can get closer to the essential bull's-eye on game with it than with any rifle I have owned.

On running game in woods, speed counts. Running deer won't wait!

In these days of 3,000- and 4,000-feet-a-second rifles, the .25-35 is on its way out, not because of any lack of merit, but because of the demand for velocity and more velocity in the modern sporting rifle. It will be hard to replace it! And those old woods loafers who have had it in their hands will keenly regret its passing.

It is a hunter's rifle for anything from squirrel to deer. It is one of the most accurate lever actions ever produced. Put a scope on it, and a good target shot behind it, and the .25-35 with the 117-grain bullet will make either the .270 or .30-'06 get up and hump to beat it at a hundred yards. Using factory rifles and loads, there will not be a quarter of an inch difference in groups, provided the .25-35 is fired slowly so that the barrel does not over heat.

LOOK OUT BELOW!

A platoon of parachute riflemen bail out (above) to begin a combat maneuver. Landing (below) shows men well bunched, ready for action.

By CAPT. JOHN E. MINTER, Jr.
(Alias Sgt. Joe McCann)

THERE'S NO DENYING that the High Command, in laying its plans for combat operations, thinks of a rifleman purely as a machine for killing the enemy. But they have an entirely practical, pragmatic reason (aside from and in addition to human kindness) for wanting to save men from being killed or maimed, and for teaching those men to protect themselves when the going gets tough. Capable combat soldiers are prime currency. Each trained rifleman represents many thousands of dollars invested in equipment and expended materiel, plus many more thousands of precious man-hours spent in equipping him, training him, and getting him on the spot.

A parachute rifleman is doubly valuable. His training costs far more, in resources and man-hours. Too, he is a particularly limited commodity in a limited field of combat-ready men. For every hundred men reported ready "for parachute duty," dozens have fallen by the wayside because of some physical defect not bad enough to preclude general military service, and many others have received injuries in parachute training—a fractured ankle, maybe, which will stand up under a hundred-mile hike in full field equipment but won't take one parachute landing.

Added to all that is the fact that putting a parachute rifleman into combat is, in itself, a right expensive operation. It takes a high-priority, hundred-thousand-dollar troop-carrier plane to unload a mere two squads of parachutists. (The "pay load" is even smaller when the distance is so great that extra gas must be carried.) This transport plane must have a fighter escort. And after a planeload is dropped, the same plane formation

A veteran "umbrella man" gives the low-down on the pre-combat training of those ground fighters from high up—our air-borne commandos.

usually has to come back in a couple of days to drop supplies.

It all adds up inevitably to the conclusion that every parachute rifleman must be a grandpappy rifleman, able to shoot straight and keep it up without getting hit himself, in every situation. Otherwise, he won't be pulling his own weight.

That's why the Parachute School at Fort Benning, Georgia, where all U. S. Army parachute troops are trained, has added a four-week course in parachutists' weapons to the venerable (since 1941) four-week course required to train a man technically as a parachute jumper. Any man who is able to get into the Parachute School will have had already the usual Army training in weapons. Many will also have had advanced infiltration under overhead fire and other battle practice. But every man gets this postgraduate weapons training in addition.

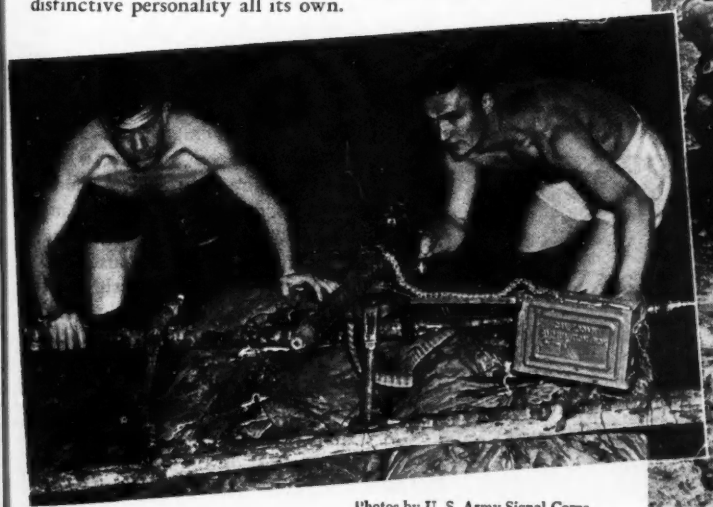
Known-distance ranges with conventional targets are operated as a sort of kindergarten. There, any man who has had no opportunity, or has failed, to qualify with his weapon gets an intensive short course which makes him a Marksman or better, under the conventional scoring system. Those men who already sport shooting hardware on their blouses (and these are vastly in the majority) are exempted from this course—not because formal range practice is not time well spent for even the sharks, but because omitting a repetition of it gives them extra time to work on more advanced shooting.

Infantry and Engineer old-timers and new-Johns alike take the "familiarization" course, which covers assembly and disassembly, operation, care, and maintenance of the Garand, the tommy gun, the carbine, the Bazooka, the grenade launcher, the 60 mm. and 81 mm. mortars, and the light machine gun (.30 caliber). Artillerymen take a special course which includes the carbine and light and some medium artillery. The engineers also get special training in booby traps—how to build, arm, set, and conceal them, and how to detect and neutralize those placed by the enemy.

But everything so far is normal and average throughout the Army; they would get virtually the same thing in any Ground Force training, anywhere, for their particular branch. It's after they complete this refresher course and start on their combat firing problems that the parachutist's training takes on a distinctive personality all its own.

Captain John Minter, former frequenter of RIFLEMAN pages under the pseudonym "Sgt. Joe McCann," is the only parachute jumper on record who has lived to tell the story after being hit in mid-air by a plane. The plane was a C-47 troop carrier. Its wing-tip was broken off. Minter's injuries — twenty-seven broken bones and a collapsed lung—cost him eleven months in the hospital. Charter member of the pioneer 501st Parachute Battalion, he was sent to Panama in 1941 with the first U. S. Parachute Troops ever to see foreign duty. Now on limited service at The Parachute School at Fort Benning, Georgia.

They are organized into squads and platoons, with machine guns, mortar, and rifleman proportions just as they would normally be in combat, and loaded with all the equipment they would carry in actual operations (including live ammunition). Then they are hustled into C-47 planes, and flown over one of the combat firing ranges. These ranges are nothing more than a normal expanse of terrain, selected for variety of terrain features. They include hills and flatland, creeks and swamps, high-tree areas, low-tree areas, thickets, and open country.



Photos by U. S. Army Signal Corps

In each plane is an instructor who acts as the umpire. His job is to observe and control the maneuver, not to direct it. The senior student of the group is in full command, and the umpire is there only to prevent a compounding of mistakes which would result in confusion in the minds of everyone concerned, rather than in constructive training.

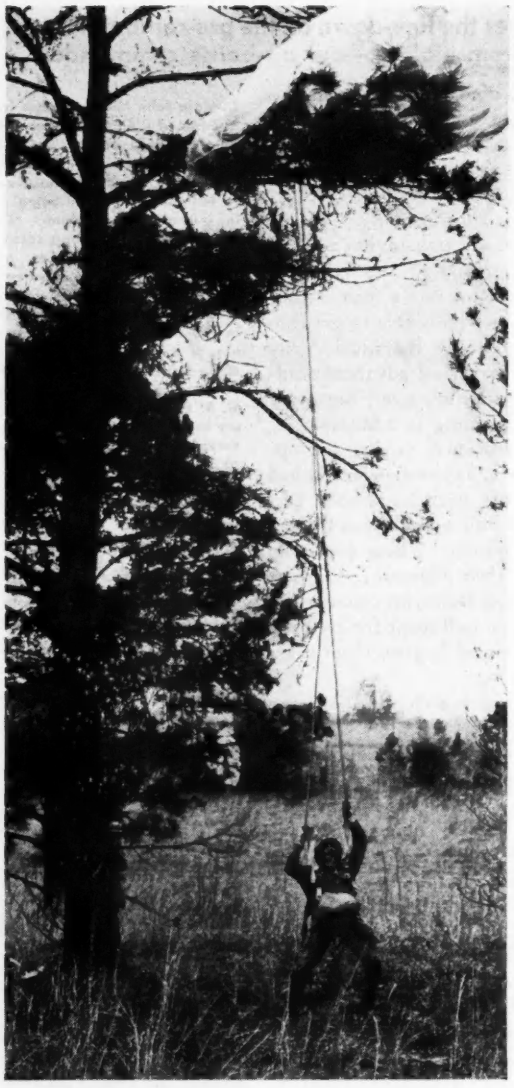
The group is briefed before the take-off, so that each man knows the details of the mission and the objectives. From map orientation only (which is all he would be likely to get in combat), the leader picks his spot from the air and jumpmasters the group into an area where live rounds are whizzing and full-charged mines are going off with unnerving regularity.

The live rounds come from expert riflemen spotted in trees throughout the area, with instructions to snipe *at* any man who shows himself. The students know that the snipers are experts, specially trained to come close without hitting a man; but that zing and smack just a foot or so away is a most powerful type of encouragement to a man to keep out of sight.

Land mines are operated from an observation tower, by a demolitions officer with a set of electrical switches set up across a chart of the area. He can see the actual area, knows exactly where each mine is placed, and blows them when they will do the most good—for instance, when a man has just moved off the spot. It helps to impress one with a respect for such things.

Despite this heckling from snipers and TNT charges, the group effects its ground assembly and reorganization, and moves out towards its objective in the conventional approach-march formation.

Cautiously they infiltrate into a quasi-jungle swampland, and the umpire announces that they may now fire their weapons at any target that appears. They move along in pairs, in the assault crouch, with each man observing his partner's far flank. Now cardboard silhouettes, such as those used in the usual pistol qualification course, begin to bob up—in trees, from behind rocks, slithering across open spots, disappearing into ground swales.



A parachute rifleman whose canopy has fouled in a tree pulls shroud-lines for enough slack to get free of his harness and out of his exposed position. Below: jumper in full field gear starts from landing point through tear-gas concentration. He has already assembled his rifle, which is dismounted for the jump and packed in the padded container visible in foreground.

There is no known-distance business here. The ranges vary from a few feet to 200 yards or more, or considerably farther than anyone would be expected to see normally in such close quarters. Each individual must estimate his own ranges, change his sights if necessary, lay on the target, and fire before the control man flips it back out of sight.

But this is not merely individual practice. The group is maneuvering as a team, under command of the leader. As they sneak along, the number of targets increases until the leader realizes that he cannot continue to move forward against such resistance without deploying his force. He halts his group, puts it under cover, and reconnoiters. Then he calls up his machine-gun teams and mortar squad, and orders a withering fire to be laid where he considers the resistance strongest. Light-arms men fire their weapons both normally and as tubes for their grenade-launcher attachments.

Soon the targets begin to appear less frequently, and finally they don't appear at all. A second reconnaissance by the leader discloses new positions taken by the retreating enemy, and he maneuvers his group into position for continuing the attack. This involves displacing the machine guns and mortars forward under tactical conditions; and, during the pursuit, the snipers on all sides resume a sprinkling of uncomfortably close fire.

When night overtakes them, the umpire warns: "Enemy tanks are known to be in the vicinity." So warned, the leader has each man dig himself in, including those who will remain awake on security watch. Sure enough, in the wee hours, comes a great clatter and clank, and various armored vehicles barge in to pulverize the bivouac area. It is a fine object lesson, this business of having tanks roaring back and forth across men in slit trenches. It teaches those men to remember, in actual combat, to dig holes deep enough to be tankproof. As the tanks withdraw, the Bazooka men pop out and fire disarmed shells at

(Continued on page 29)

DRY SHOOTING

By COL. H. P. SHELDON

IN THOSE OLD LEISURELY DAYS, dimly recalled, the gunning fraternity regarded the warm months of spring and summer as a season for training and experimentation, a time in which to test new equipment and, more important still, a time in which to practice so that when the game season came around the hand and eye would be in the best possible condition for sterner business. The song of the turtle, the bullfrog, and the robin mingled not unpleasantly with the rattle and pop of small arms as the woodchuck, crow, and target shooters fared forth with great hopes and plenty of cartridges.

But those times are no more. While increasing armies of gophers, ground squirrels, prairie dogs, coyotes, and woodchucks attack crops or livestock, the average rifleman now lacks ammunition to defend these resources and the shotgun shooter must forego his preseason practice on clay targets and crows. And, although there are men who seem to be able to lay aside their guns at the close of one season and pick them up again eight or ten months later without having suffered any apparent loss of skill, they are few and far between. Most shooters are like the great violinist who, when asked if he found it necessary to practice daily, said, "Yes, indeed! If I do not practice one day, I notice it. If I go two days without practice, the critics notice it. Three days, and even the audience notices it!"

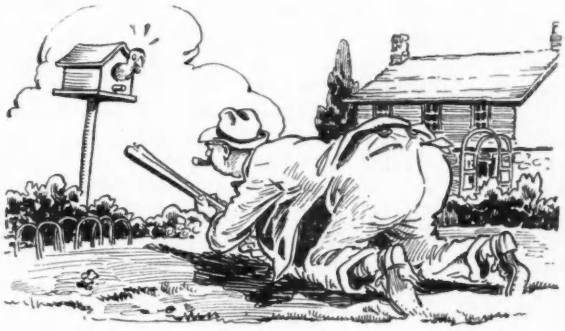
I think that the better the marksman is the more essential his regular practice becomes. It is true that our Star-Spangled Uncle talks of releasing sporting ammunition during the year, but there is nothing to indicate that it will be available to anyone who is not a farmer or a livestock grower. Which means that the only prescription for most cartridge-lacking gunners who don't want to lose acquired skills, or who want to gain more, is a major dose of that tasteless medicine known as "dry shooting"—which, with the exceptions of bridge and 2 per cent beer, is the least exciting of all human pastimes!

True, there are some who seem to like dry shooting even with a sighting bar but theirs must be the fervor and zeal of the Moslem, who lives each day on a handful of dates and the hope of an eternal paradise equipped with cafeteria, hamburgers, and sloe-eyed beauties. The only reasons *I* can see for kneeling, standing, sitting, or lying prone for twenty minutes at a time on a warm summer afternoon with an empty rifle to aim, sight, and squeeze are these: (1) The sergeant asked him to do so, or (2) he really wants to learn how to shoot and is willing to assume these ludicrous positions in order so to do!

And learn he can by this method. So, too, can the experienced rifleman keep himself in good target form—although, like the hero in Lincoln's story of the man being ridden out of town on a rail, he may feel that if it "wasn't fer the honor of the thing I'd a durn sight rather walk!"

The inviolable rule for skill with rifle, shotgun, or pistol is never to let off a careless shot; never to fail to put the very best that eye, hand, and brain are capable of delivering into every attempt. The "hell,-I-don't-care-whether-I-hit-it-or-not" attitude, resulting in a careless squeeze or in any relaxation whatsoever of the effort toward perfection, can spoil in an instant much that a man has gained from weeks of sincere endeavor. The tendency to ease off is more likely to appear in dry shooting than when live ammunition is being used, and that, in my estimation (second only to the absence the practical problems supplied by "doping" wind, light, and temperature) is the greatest fault of the system. Good instructors and the introduction of an element of competition are great helps in reducing the element of indifference, but these are seldom present in your own back yard where you are aiming, squeezing, and clicking an empty rifle. There, conscience alone supplies the discipline.

Dry shooting with the shotgun is somewhat less pallid, although it still lacks something of being wildly exciting. There are few, for example, who would leave a good dogfight and hurry home to do the daily dozen with a bird gun or a fowling piece, but I think that if it is properly and regularly carried



out, it is as good or better training than skeet shooting. You can do it in your own home whenever you have a minute of leisure, and you can make a daily routine of it.

Whereas skeet and "regular" trap targets have standardized speeds, elevations, and angles the dry shooter can make his stationary target stuck on a wall "fly" in any direction and at any speed he desires simply by imagining that it is doing so and handling his gun accordingly. This time it's a duck crossing low to the left. The barrel comes up behind the object, crosses it, and the trigger is pulled as the muzzle passes ahead. Now it's a towering duck and the muzzle comes smoothly and swiftly from below to cover the spot as the hammer falls. The picture which the brain records is the same as if the spot were actually moving. It is by the continual repetition of such pictures or mental impressions, by repeating over and over again the muscular and nervous exercises that accompany them, that a man becomes a good wing shot. *(Continued on page 23)*

7,000,000 BAYONETS!

ONLY A FEW YEARS AGO, Mussolini was boasting loudly of his military strength. Seven million bayonets, he said, would back the territorial aggression of the Fascist State! That's a lot of bayonets; enough to merit the respect of any nation considering the necessity of standing out against them.

But that threat has failed in every Italian campaign since Ethiopia. Italian armies did overrun native, barefooted, spear-armed Ethiopian tribesmen; but wherever they have met well-armed, well-equipped, well-trained troops, they have failed—partly, at least, because of a fact not mentioned in Il Duce's boast: the fact that those seven million bayonets were of countless different types and designs, to fit countless different types and designs of weapons! Such a diversity of arms and equipment places an intolerable burden on the producing power of a nation, and on the supplying facilities of an army; and the effect of this handicap on Italian might provides a lesson of prime importance to all warring nations.

The East African, West Desert, Tunisian, and Sicilian campaigns yielded into the hands of Allied ordnance an amazing collection of Italian weapons. Those mentioned here were all in use in those campaigns, including Vetterli-Vitali rifles and musketoons (pictured above, Numbers 1 and 2) first introduced into the Italian army in the '70's!

This Vetterli-Vitali was 10.35 mm. in caliber and had many of the characteristics of the Swiss Vetterli and the Dutch Beaumont-Vitali bolt-action repeating rifles. It was a black-powder arm, having the then-new box magazine. It was made first as a rifle, later in a shorter design, the musketoon, and still later as a cavalry carbine. One model of the carbine, of which only a few were issued, was equipped with a folding bayonet.

These Vetterli-Vitali weapons have seen extensive service in Italian campaigns over the past seventy years. In World War One they were used mainly for guard work. In the '20's, many were shipped to Italian colonies for equipping native troops. Manufacture of ammunition for these pieces continued, apparently, through the '30's. (The 10.35 mm. round has a brass center-fire case, with a lead-filled, conical, brass-jacketed bullet.) Before the end of World War One, need for the utilization of these old weapons led to the remodeling of many of them into 6.5 mm. caliber. This was accomplished by the Salerno process, inserting a 6.5 mm. liner into the original barrel and making necessary alterations to the bolt face and extractor. The magazine was replaced by one of Mannlicher design to take the standard clip of six 6.5 mm. rounds. This new magazine was naturally much smaller than the old one, so wooden inlays were inserted to fill the gaps in the stock!

All of these weapons (with the exception of the folding-bayonet carbine), together with extensive supplies of spare parts and ammunition, were in the big Italian base depot at Asmara, Eritrea, and were used in the 1940-41 campaigns. The 6.5 mm. modification of the rifle was also seen repeatedly in Libya. After the battle of Sidi Rezeg (Libya) late in 1941, large quantities of these rifles were found by Allied troops around former Italian positions.

First of the so-called "modern" Italian shoulder arms was the Carcano, which first appeared as a rifle in 1891. This was a fairly good weapon, with the already-accepted Mannlicher magazine. Its caliber was 6.5 mm., the bullet developing about 2395 foot-seconds. Its shock effect, however, does not compare with the American .30-'06. The adoption of this small-bore, smokeless-powder weapon within five years of the French discovery of the "new" powder (1886) and within three years of the Austrian patent of the Mannlicher magazine, proves that Italians of the '90's were in step with the times. But the Carcano has not changed very much since then.

The original '91 Carcano was fifty and three-eighths inches long, weighed eight pounds ten ounces, was fitted with a short knife bayonet. A carbine (the "Trupi Speciale," for special troops) was next developed and bore the same model number. The bayonet for this carbine, although similar to the rifle bayonet in design, has a side catch, so that bayonets for rifle and carbine are not interchangeable. At about the same time, an-

By LIEUTENANT COLONEL G. B. JARRETT
Chief, Foreign Materiel Section
Aberdeen Proving Grounds

other similar carbine was designed which had a folding fluted bayonet. It was given the same model number: Carbine Model '91.

These three Model '91 Carcanos remained unchanged until the Armistice of 1918. Probably few, if any, of these weapons were made between 1918 and the rise of the Fascist regime around 1922, but after Mussolini came into power the '91 Carcano was continued with a few small modifications. The rifle was shortened to forty-six inches; the silly side catch was taken off the carbine and a catch to fit the rifle bayonet was substituted for it. Sling attachments were added, to facilitate the carrying of the piece.

In the '30's, experiments were conducted with a newer caliber—7.35 mm.—perhaps in the hope of adding shocking power. The resulting weapon looked different but retained the old Carcano bolt and receiver, and the Mannlicher magazine. It was more nearly comparable to our M 1903, caliber .30-'06, the British short Lee-Enfield, and German Kar. 98, in length, caliber, bullet design, velocity, and weight. The Italians believed very strongly in this new weapon, which they called the Model 38 Carcano, and began at once producing two carbines, almost identical in exterior appearance with the old Model 91 carbines, but chambered for the new 7.35 mm. caliber.

At that time, Italian small-arms cartridge manufacture had to include the old 10.35 mm., the standard 6.5 mm., the new 8 mm. Breda machine gun cartridge, the 7.7 A/C machine gun cartridge (copy of the British .303 from World War One), the 8 mm. Mannlicher and Schwarzlose machine gun cartridges (for guns captured from Austria in World War One), plus the new Breda machine gun caliber .5 inch, as well as several different types of pistol ammunition.

Perhaps someone in the Italian Ministry of Supply awakened to the fact that, with war just around the corner, that was too many kinds of ammunition. The seven million bayonets needed better backing than could be given them under those conditions. In any case, the 7.35 caliber died immediately. But the 38 short rifle remained. It was unchanged in outward appearance, but was now rechambered for 6.5 mm. ammunition. (The caliber of Model 38 weapons is stamped on top of the rear sight; 7.35 mm. or 6.5 mm., as the case might be. The same is true of the Model 91 carbines.)

A toy weapon, but still a lethal weapon, was developed for use in drilling young Italian boys. Youngsters of ten years, being drilled as Black Shirts, were issued Fascist Youth Carbines. This gun fires a special 6.5 mm. center-fire brass cartridge with a light bullet, but is no less dangerous than our own .22 Long Rifle cartridge.

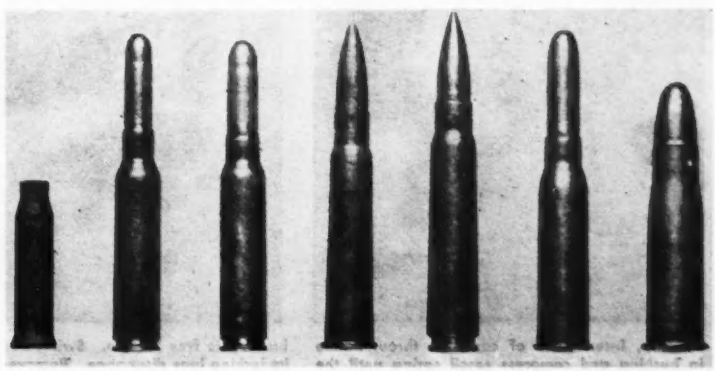
There are also five Austrian shoulder arms, quantities of which were captured by the Italians in World War One, all using the same 8 mm. cartridge, which were a part of the arsenal on which Mussolini's seven million bayonets were to be fixed. These were 8 mm. Mannlichers of 1888 and 1895. There was a rifle and a carbine in each type, plus a modified version of the '95 which converted it into a short rifle. Several hundred of these weapons were among the huge stocks of enemy weapons and supplies captured at Asmara.

This same style Austrian 8 mm. cartridge was used in the Austrian Schwarzlose machine gun, also captured in 1918, used in great numbers in the Italian colonies as a heavy machine gun. The writer saw at least five hundred of these weapons among the captured stores at Asmara.

Those seven million bayonets themselves were of many types. The Vetterli-Vitali originally had a very long blade; later, a shorter one. The 91 Carcano bayonet originally had a brass handle, later changed to steel with wooden grips. (This type is subdivided again by the side catch for the Model 91 carbine.) Folding bayonets appear on Vetterli-Vitalis and on '91 Carcano carbines. Even the miniature "Youth" carbine has a bayonet; a folding one similar to that on the '91 carbine. The Model 38 has a very short knife bayonet, and has also a trough in the stock so that a folding model of the same type bayonet can be used. (This is a folding knife bayonet, not the fluted blade folding bayonet on the '91 carbines.) Still another folding knife bayonet exists, intended for use on the Beretta submachine gun, but quite similar to the one for the Model 38.

So was Italy armed. But, as John Schofield wrote last year in THE RIFLEMAN, she was armed for surrender. Her seven million bayonets were dulled by the sands of diversified production, by impossible problems of supply. She had, not too many bayonets, but too many *kinds* of bayonets; bayonets designed to fit too many kinds of guns; guns requiring too many kinds of ammunition. Italy's record in this war is an object-lesson perfectly demonstrating the evils of over-diversification. Vast stocks of guns are not enough. There must be ammunition to fit those guns, men trained to use them. Each different type means added problems. It is a lesson for us to study.

Pictured below, from left to right: cartridge case for 6.5 Youth Carbine; cartridges for 6.5 rifle and carbine, 7.35 M 38, 7.7 machine gun (British), 8 mm. Fiat and Breda; 8 mm. Austrian, and the 10.35 Vetterli-Vitali.



The sixteen weapons pictured on the opposite page provide an object lesson for war planners. Too many types of arms, requiring too many kinds of ammunition and equipment, put an impossible strain on Italian production. Pictured here are (1) the Vetterli-Vitali 10.35 mm. musketoon, M 1870; (2) the Vetterli-Vitali 6.5 rifle, M 1870; (3) the Carcano 6.5 mm. rifle, M 1891; (4) the Mannlicher 8 mm. rifle, M 1888; (5) the Mannlicher 8 mm. rifle, M 1895; (6) the Mannlicher 8 mm. carbine, M 1895. Of the above, numbers 4, 5, 6 are of Austrian manufacture. Numbers 7 to 16 inclusive are Carcano weapons: (7) 6.5 rifle, M 1891; (8) 6.5 carbine T.S. ("Trupi Speciale," for special troops); (9) 6.5 carbine, M 1891; (10) 6.5 rifle, M 1891, Fascist-made; (11) 6.5 carbine T.S., Fascist; (12) 7.35 short rifle 38, Fascist; (13)-7.35 carbine T.S. M '91, Fascist; (14) 7.35 carbine, M '91, Fascist; (15) 6.5 short rifle, M 38, Fascist; and (16) the 6.5 Fascist Youth Carbine with which ten-year-olds drilled.

NEW RUSSIAN SERVICE PISTOL

THE TOKAREV 7.63 mm.

By W. H. B. SMITH

PERHAPS THE OUTSTANDING CHARACTERISTIC of the present-day Russian arms designer is his readiness to copy, adapt, improve—and, above all else, simplify—weapons that have been developed and proved by other nations.

It is a characteristic worthy of imitation! In time of war, patent barriers are down and our inventions are copied without a "by your leave" by friend and enemy alike. With all due respect to "Yankee ingenuity," we are by no means the sole source of excellent ordnance and small-arms designing and we would do very well, in many instances, if we followed the Russian lead in adopting for our own use in this war the advancements brought forth by other nations.

Russia, with a vast supply of captured and lend-lease weapons to study, has made the best of that wartime opportunity. The new Russian service pistol is a case in point.

Colt and Browning may take it as a compliment that, having weighed the merits of all the locking systems in use, Tokarev, designer of this new weapon and of the present Russian semi-automatic rifle, appropriated the "parallel ruler" system in use in our Government Model .45 auto. In general, too, he appropriated the design of the slide, slide stop, magazine, and over-all appearance of the Colt; with the result that, except for its exposed thumb-breaker hammer reminiscent of the old Savage, the Tokarev resembles a somewhat overgrown Colt .32 auto.

Similarities, however, lose interest in the light of more startling contrasts. In our Army Colt, the barrel bushing is, perhaps, the weapon's weakest link. Under the constant hammering of the slide this open horseshoe-shaped bushing sometimes breaks, permitting the spring and plug to fly out. Tokarev has developed, instead, a heavily forged bushing with one large hole through which the barrel protrudes, and one smaller hole in which the steel disc at the end of the recoil spring seats. It is practically impossible for this bushing to break in field use.

As with the Colt, the next dismounting step is the removal of the slide stop and the attached pin which passes through the left side of the receiver, through the swinging link attached to the barrel, and on through the right side of the receiver. In the Tokarev, a simple spring clip mounted on the right side of the receiver securely locks the protruding end of the pin by means of spring arms which seat in notches in the pin.

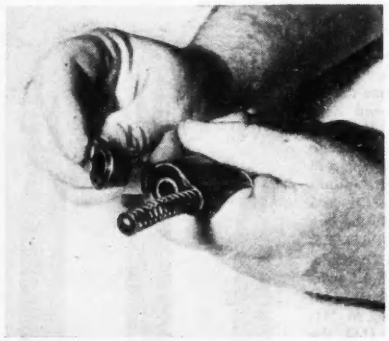
Note resemblance to our Colt .45 M 1911. Cartridge is the 7.63 Mauser

Note, next, the Tokarev barrel. Where the Colt has two locking ribs on the top of the barrel, which lock in transverse slots on the inside of the slide, the Tokarev locking ribs run entirely around the barrel. As in the Colt, they engage only on top. But barrel manufacture is greatly simplified, since the ribs are produced on a simple turning lathe.

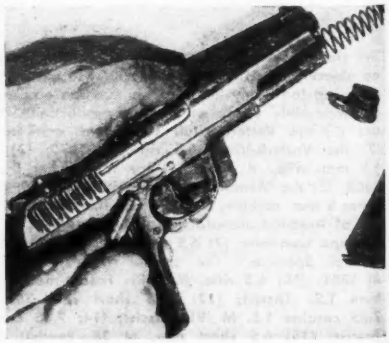
The next item of interest is the flying firing pin. While the rear of the Tokarev slide resembles that of the Colt in appearance, far fewer operations are involved in its manufacture. A coil spring fits over the forward part of the pin and the assembly is inserted directly into the hole in the rear of the slide. A section of the top of the firing pin is ground concave to engage a simple spring split pin pushed through the slide from the left side, locking the firing pin and controlling its motion.

The Tokarev stocks are of black plastic, requiring neither screws nor machined-in supports. A pivoted strip of flat spring steel is riveted on the inner face of each stock. Turned crosswise, each end locks in the frame. Turning the strip disengages

To strip, insert nose of cartridge through hole in bushing and compress recoil spring until the



bushing is free to turn. Swing bushing up until its locking lugs disengage. Remove bushing, tak-



ing care to prevent recoil spring from jumping out of its housing. Pulling back simple spring

it from the frame and permits the stocks to be lifted off.

The magazine release button looks like the one on the Colt and acts in much the same way; but it is removed simply by punching it out from the right side, where the split pin end looks like the standard Colt screw—but isn't.

The trigger mechanism is a model of simplicity. It has a military, two-step pull which is remarkably smooth. The first part of the pull forces the trigger bars back against the tension of a simple flat spring notched into the back of the grip. The second part of the pull makes the engagement to release the disconnector and engage the sear so the hammer can fall.

The hammer, though set well below the line of sight, is definitely awkward in design. Cocking it with one hand is something of a trick. It is provided with a half-cock feature, and when at half cock both the action and the slide are locked.

A step on the magazine follower pushes the slide stop up so it catches in the retaining notch in the slide, holding the action open when the last shot in the magazine has been fired. It is interesting to note here that, when the slide is released by pressing down the stop, the hammer automatically goes to half cock. This is a type of "safety" feature found on several German types of pistols, the general theory being that the slide stop is primarily intended as a warning that the pistol is empty, only secondarily as a fast-loading device.

The most remarkable example of simplification in design is to be found in the Tokarev hammer mechanism unit. This unit forms a part of the receiver runners in which the slide travels. It is lifted up, out of the receiver, without difficulty; and pushing out three pins completely dismounts the hammer, sear, disconnector, and spring.

The magazine is also noteworthy for construction which permits the average soldier to overhaul and clean it without trouble. The magazine follower, or platform on which the first cartridge rests, is supported from below by the typical magazine spring. The bottom of this spring rests on a flat platform which in turn rests on the magazine bottom. The bottom is tongued into grooves in the magazine case, being slid in from the front. It is held in place by a small nib on the platform protruding through a hole in the magazine bottom. Pushing this nib in permits the bottom to be pulled forward. The platform, spring, and follower can then be removed.

The barrel is about four and a half inches long. Over-all length is about seven and three-quarters inches. Weight is about twenty-nine ounces. The magazine will hold eight cartridges, but the weapon works better with seven. The front sight is an integral part of the slide; rear sight is zeroed, but can be driven to either side for individual adjustment.

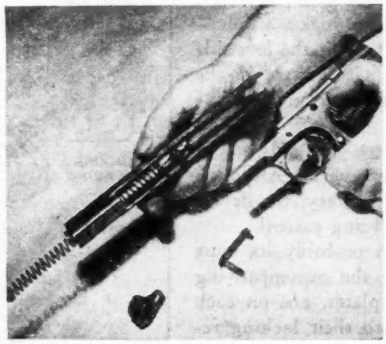
No description of this weapon would be complete without consideration of its cartridge. It shoots one of the oldest auto pistol cartridges known: the 7.63 mm. Mauser which was used in the Boer War and earlier. This cartridge is also used in two major types of Russian sub-machine guns.

Before the war this cartridge was manufactured commercially in the United States to develop 1420 feet per second in a five and a half-inch-barreled Mauser pistol. Mauser reported its extreme range as 1800 meters, its usable range with stock as 1000 yards. With a full-jacketed bullet weighing about eighty-five grains, it developed close to 400 foot-pounds energy, and had a penetration of some eleven inches in pine. (Some European cartridges, as well as some American, also used soft-point bullets whose weights ran from eighty-five to ninety grains, with velocities ranging from about 1330 to close to 1600 in long-barreled weapons.)

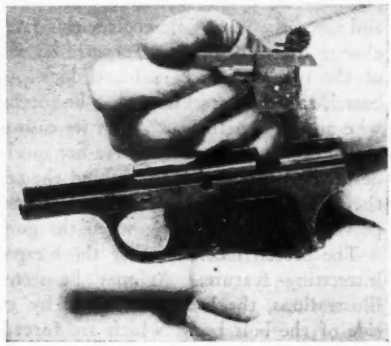
Whatever the reason for the Russian adoption of this calibre their war successes and the merits of the gun itself warrant our studying their results with an open mind. In the words of author Ralph Ingersoll, "THE BATTLE IS THE PAYOFF."

Noteworthy among many Tokarev simplifications are: locking lugs cut all the way around barrel; one-piece hammer assembly; grips locked in place by turn-button latches; firing pin held by split pin driven through the slide; and the heavier, practically unbreakable, forged barrel bushing.

clip on right side of gun frees slide-stop pin, allowing it to be withdrawn. The slide, recoil



spring, recoil spring housing, and barrel assembly will now slide forward and off the receiver.



The hammer mechanism (hammer, sear, disconnector, spring) can now be removed in one piece.

RUSSIAN DEGTYAROV

By ROGER MARSH

VERY FEW WEAPONS have attracted as much attention as the superb Russian LMG, popularly called the Degtyarov. Even fewer guns have been the inspiration for so many wild guesses based on so little accurate information.

Basically, the Degtyarov is a gas-operated, air-cooled, magazine-fed light machine gun. In its ground version, it is fired normally from a bipod attached to the front end of the barrel jacket and gas cup guide. The magazine, a flat pan mounted atop the receiver, holds forty-seven rounds. Unlike the Lewis drum, this magazine does not fit over an axle on the top of the gun. Instead, the pan body, which does not rotate, is attached at the front to the receiver by engagement with a hooked lug on the barrel jacket and at the rear by a catch whose handle forms the guard wings for the rear sight. This fixed part of the magazine carries the feed lips as well as the rotor spring for the revolving top plate. The moving plate has individual fingers which carry the cartridges.

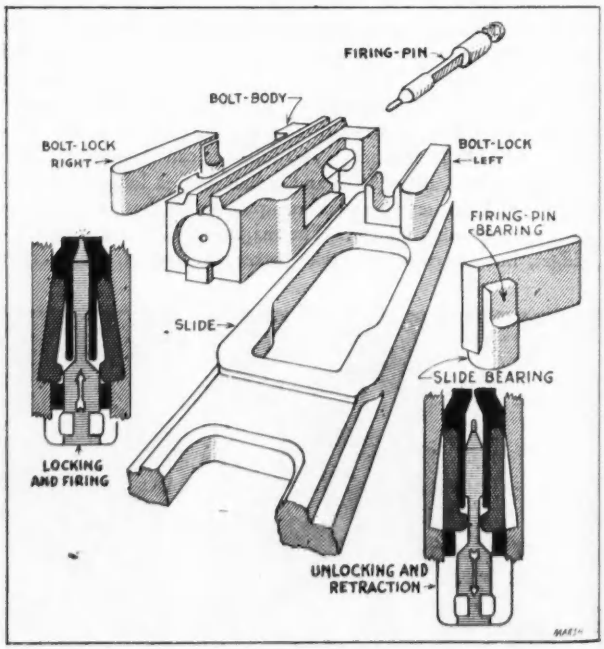
The gun is gas-operated, but it does not have the conventional gas cylinder and piston arrangement. The Degtyarov gas-employment mechanism is the much more reliable nozzle-and-cup type: a nozzle, attached to the barrel, guides a jet of propellent gases against the head of the cup, which takes the place of the usual piston. The walls of the cup, when fully forward, envelop about one inch of the nozzle. The system has some faults, but seems less vulnerable to freezing from fouling than other gas systems.

The barrel length of the ground Degtyarov is twenty-three and seven-eighth inches, but the gun weighs less than nineteen pounds. Its cyclic rate of fire is in the 400-500 RPM range, and since the gun is air-cooled, this rate of fire makes a quick-change barrel desirable. Pressure on a button on the left side of the receiver forces a barrel lock out of its groove in the barrel, and the barrel may then be rotated ninety-degrees clockwise and drawn forward from its casing.

The weapon has no selective-fire mechanism. Its only safety device is a small lever just behind the trigger guard. Although the natural grip of the hand disengages this safety, the device prevents accidental firing when the gun is being carried.

The breech mechanism of the weapon is probably its most interesting feature. As may be seen in the accompanying illustrations, the breech is locked by two plates, one on each side of the bolt body, which are forced into their locking recesses in the receiver by cams on the firing pin as it, in turn, is carried forward by the moving slide. The locking plates, or bolt locks, are rounded at their front ends to mate with recesses in the bolt body. When the rear ends of the locks are forced into engagement with the receiver, the bolt mechanism very solidly supports the round in the chamber.

Unlocking is equally simple. Each bolt lock has a lug on its lower face which engages a camming recess in the slide. Thus, when gas pressure drives the slide to the rear, it first withdraws the firing pin and then cams the locks out of engagement with their recesses in the receiver. After the locks are fully withdrawn, the front surface of the camming recess in the slide encounters a lug on the bottom of the bolt *body* and thus carries the bolt to the rear. The case is withdrawn by a conventional extractor, mounted in the bottom of the bolt body. To complete the disposal of the case, it is flipped out the bottom of the gun (through a port in the slide) by an ordinary ejector operating in a groove in the center of the feed rib.



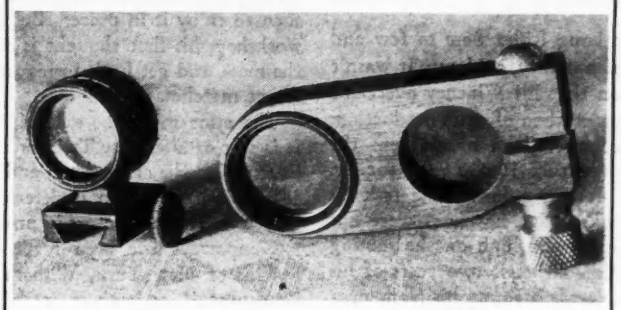
The Degtyarov breech mechanism is amazingly simple. Plates on the sides of the bolt are cammed in or out to lock and unlock.

As is the case with most light machine guns, the Degytarov bolt remains open if the trigger is released. No provision, however, is made for holding the breech open after the last round is fired. The open-bolt feature eliminates the danger of cooked-off rounds; but, like the BAR, this gun "jumps" on the first round if not being fired from the bipod. No undue stress is placed on accuracy, for in addition to the "initial bounce" of the breech mechanism itself, the gunner is handicapped by open sights which fall rather short of match rifle quality. The rear sight is a step-adjustable open U-type; the front, a fixed blade mounted on the front of the barrel jacket and protected by two heavy metal ears.

Although it is by no means beautiful, the weapon is a superlatively simple and efficient piece of machinery. Certain design features are of particular interest as illustrations of Russian ingenuity. Two of these (the gas system and the breech mechanism) have already been described. The design and placement of the action spring should also be noted. It is placed between the gas cup at the front end and a collar-type lock at the rear. Both the spring and its lock ride on the rod connecting the gas cup to the slide, while the lock also engages with shoulders at the front of the receiver. Thus, when gas pressure drives the moving parts back, the spring is compressed against its lock by the gas cup, while the slide rod moves to the rear through the center of the spring and lock. Pressure of the spring then throws the mechanism forward in the next cycle.

Not only does the action spring force the moving parts forward, but it also serves to keep the gas cup screwed to the rod and to keep the spring lock in engagement with the receiver. The front end of the action spring is bent so that it enters a groove in the rod and at the same time engages a ratchet tooth on the rear of the gas cup. Not until the spring is drawn against its own pressure away from the ratchet tooth can the gas cup be unscrewed. At the other end, the spring lock must be forced forward against the pressure of the spring to allow it to be unlocked from the receiver.

There is at least one Degtyarov type other than the ground model. In addition to the rumored aircraft version (supplanting the Schpitalny-Kamouritsky "Schkass"), there is a tank model which has a collapsing stock vaguely like that of our M3 submachine gun. The barrel of this tank model has no jacket, and the regular single-row drum, which takes up considerable area, is replaced by a double-row drum with the same capacity: a much more compact arrangement.



DRY FIRING WITH SCOPE SIGHTS

By JOHN M. AVERY

With target rifles equipped only with telescope sights, the "dry shooter" has difficulty in finding a convenient aiming point. He may with profit follow the method used by the amateur photographer with a fixed-focus camera. If a camera portrait attachment is attached to the muzzle of the rifle in such a position that it is lined up with the scope, the shooter will be able to focus sharply on an object about four feet away.

An easy method of supporting the portrait attachment is to bore two holes in a piece of wood, one hole to take the lens, the other to clamp on the gun muzzle. This block should be of such length as to raise the lens to telescope height.

If the rifle is one of the newer target models with detachable front sight, a lens holder of more finished appearance is easy to make from one of the old style die-cast front scope mounts. A Number 8 Kodak Portrait attachment will slip in place easily and can be kept there by using a little cellulose cement.

Any object about four feet away from the lens will be in sharp focus, the exact distance depending upon how the telescope is focused. It will be found possible to focus upon a spot about one thirty-second of an inch in diameter.

Dry Shooting

(Continued from page 17)

The "swing" is the main factor involved in wing shooting. When perfectly executed the swing is swift and smooth, and the trigger is pulled without interrupting the rhythm.

Not enough attention is given to "follow through," which is the continued forward movement of the muzzle after the trigger is pulled. A good long "follow through" is absolutely essential to good shooting because to stop the muzzle or even to slow it down as it crosses the target means shooting behind.

It may almost be said that a shot should never be fired from a shotgun, even at a stationary target, unless the barrels are moving. The shotgun is an offhand weapon and swing is its handmaiden. Swing is not omitted just because the target itself is motionless. In swinging on a stationary target the trigger is pulled just *before* the muzzle crosses the target.

The technique of the swing and follow through can be acquired by persistent and regular dry shooting more easily, perhaps, than by the use of live ammunition at moving targets. In actual hunting or in skeet or trap shooting, one's attention is likely to be focused on visible hits and misses rather than on the fine details of gun handling.

There is still another way for the shotgun man to get in his midseason practice. Thanks to the laws and regulations for the protection of song and insectivorous birds, there is hardly a community that does not enjoy an abundance of bird life. These small birds, protected though they are by moral and statutory laws, are still good game for the dry shooter, who can practice on them all summer long and never harm a feather.

Night and morning, month after month, I shot pigeons from the window of a club situated in the heart of one of our great cities without complaint from citizens or interference from the police. It was first-rate practice. I had thousands of shots, and my bill for shells was zero, point, zero, zero. I am pretty good on the robins, too, when they come flashing across my lawn.

But here is a word of caution: Always use dummy cartridges or empty fired cases for dry shooting practice. In other words, never snap a lock on an empty chamber.

GUN OF DESTINY

By GLENN R. VERNAM

PART TWO

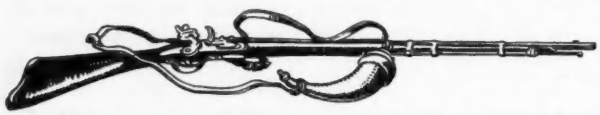
THE PITY OF IT was that Long Rifles were so few and their construction was, of necessity, so slow. It wasn't until after the Revolution that Eli Whitney overcame this by developing the world's first method of mass production.

Whitney, of cotton gin fame, secured an order from the new government in 1798 to manufacture 10,000 rifles for the army on a three-year contract. It was a formidable task by the old methods. Whitney's Yankee wits, however, were not chained to the old methods. They stood high on the shining hill of progressive enterprise. While the first two years of his contract saw only 500 rifles completed, it found his plant outfitted with a strange assortment of powered boring, cutting, and milling machines of his own devising.

Thus was born the first machine tools for turning out standardized, interchangeable parts in quantities. And the fact that this revolutionary method of manufacture enabled him to complete his outsize contract in the few remaining months, ushered in an era that was to lift the load of drudgery from millions of human backs and change the economic map of the United States and of the world.

In like manner was the first turret lathe constructed by the gunmakers, Lawrence and Robbins, to facilitate the manufacture of their wares. The profile lathe, too, came from the shop of Thomas Blanchard as an answer to the cry for swifter production of gunstocks. It immediately proved its adaptability for turning out odd-shaped objects in endless succession.

Amos Whittemore used his gunmaking genius to perfect Oliver Evan's machine for making wool cards. This, in turn,



expanded into automatic carding and processing machinery which made possible the magic of modern textile production.

The discovery of tempering gun barrels by casting them around a core filled with running water, worked out by Captain Thomas Rodman of the U. S. Army, soon found itself applicable to making chilled plows and kindred implements.

That same inventor's instrument for testing the explosive pressures of firearms propellents not only made possible the construction of guns capable of handling excessive charges, but also paved the way for practical use of all our heavy nitro explosives and blasting powders. And, without these, we would have been denied most of our mountain railroads, highways, hydro-electric dams, reclamation projects, land clearing, navigable canals, subways, and deep-base constructions, not to mention the gold, coal, oil, iron, and similar raw products that have lifted humanity out of the dark ages.

These are but a few of the innumerable instances where the marvels of present-day life sprang in direct line from the American gun. For the American is primarily a builder. His greatest desire has always been to construct something useful and then to enjoy it in peace. But should someone try to upset his workshop, his first thought is to rig up a better gun, clean up the mess, and get back to his tools, his fireside, and his friendly target matches.

The same might be said of the American powder industry. It is sort of a Siamese Twin of the gun. Death of either would have pulled the other down and would have retarded the march of civilization for an undeterminable period. Hand in hand, they were leading factors in promoting civilization.

Gunpowder has been made in America since 1744. The Lafflins of New York, William Lane, and Stephen Decatur of Pennsylvania, and others, made powder all through the Revolution. But this early propellent, like the early guns, was merely a continuation of the crude product which Europe had used without notable improvement for over 500 years. It was the American rifleman's ever-present urge to improve his shooting that brought about the change. Pre-eminent in performance though his superior Long Rifle was, the variability and the often questionable action of the then-obtainable powder spurred the frontiersman to vociferous demands for something better.

And he got it. That plea, lifted in a cry for better gunnery, might be called the shibboleth of America. From the conception of the first Long Rifle to the delivery of the latest jet-propelled airplane, its call has always brought the Genie of Betterment loaded with new treasures for mankind.

The genie's New Year's gift to America in the year 1800 was a French refugee named du Pont, who had fled to the United States to escape dictatorship and oppressive government. E. I. du Pont de Nemours was not only an experienced powder maker; he was a scientist and chemist as well. So impressed was he by the possibilities in a land where a man's own ability was the only limit to his progress, that he decided to become a citizen. Two years later he was turning out powder for American guns on a farm near Wilmington, Delaware.

This powder proved to be the improvement for which the Yankee riflemen had been asking. Scientifically compounded for specific purposes, it was not only far better than the old product, but improved production methods brought its price down within a few years to half that of the inferior kinds.

It was du Pont's powder which contributed so greatly to the growth of Astor's great fur industry, and to the sagas of the beaver trade and the mountain men, whose furry harvests boosted America to its first high level of industrial leadership. It was this powder, combined with the deadly Long Rifle, that safeguarded the epochal wanderings of such men as Bridger, Smith, Carson, St. Vrain, Henry, Colter, and Fitzpatrick, allowing them to return with dazzling tales of the western wonderland. Without such weapons, they could not have accomplished these journeys and our great West, even our Middle West as well, might have been lost to us.

This was the powder with which, on that January day in 1815, Jackson's backwoods Long Rifles wiped out 2,500 of Packenham's trained troops, with a loss of eight killed and

thirteen wounded, and removed forever the European idea that Americans could be suppressed. Again, twenty-two thousand pounds of this propellent were what persuaded the Barbary pirates to abandon their unsavory practices that same year. And in the hands of the American Privateers of 1812-14, its voice low in the throats of Yankee guns, it helped to abolish the world's greatest kidnapping racket and win the freedom of the seas for American shipping. That alone made possible the heroic era of Clipper ships and world trade which gave our nation the financial stimulus to burst its swaddling clothes.

The rich valleys of the Ohio, Kentucky, and Mississippi owe their settlement in most part to the safety established by the Long Rifles of Boone's and Kenton's cohorts. By the same token, those rifles were what made necessary the development of the Conestoga wagon, the keel boat, and extensive systems of mail and passenger service. These, in turn, fathered that booming westward migration which spawned the purchase of the Louisiana Territory and the acquisition of Oregon and the Spanish holdings, making the very nation itself a direct geographical descendant of the Long Rifle.

Priest, pedagogue, and promoter all owe their fine accomplishments to the security created and maintained by soft-footed bordermen and their efficient weapons. They cleared the path for circuit rider, for the itinerant doctor, for the purveyor of learning, and for the struggling pioneer families. The authoritative voice of the Long Rifle was the sole guarantee under which scattered hamlets grew into fabulous cities along the Allegheny, Detroit, and Illinois. Its trim, symmetrical figure stood tall and straight in the gateway of an untouched empire, assuring "life, liberty, and the pursuit of happiness" to all men.

And as the Long Rifle spread our growing civilization across a continent, the tiny tendrils of smoke issuing from its barrel soon wove themselves into that magic carpet which is twentieth-century America. A slender spiral from Whitney's machine tools, ascending through Chauncey Jerome's clock factory, blossomed into a web of fine-precision instruments. Blanchard's profile lathe trailed out through shoe-last production to meet the thread from Lawrence and Robbins' turret lathe from which emerged the intricacies of the new steam engine. Together, they chugged westward over a new transcontinental roadbed still cloudy with the smoke from the California Powder Company's new Giant blasting powder. Now, a trio, they paused to throw up a net of steel against Lake Michigan's skyline, to fabricate a stagelike city against the backdrop of Colorado's mountains, and to span San Francisco's bay with an automobile roadway. Mass-production methods learned along the way were soon turning out everything from kitchenware to threshing machines at prices within reach of the common man.

Gunpowder, baked-on enamel, surgical sutures, and the wife's last pair of nylon stockings may seem as unrelated as the four corners of the globe; yet it was du Pont's study of cellulose that discovered all four and produced all four with equal impartiality. Their work with this phenomenal element, in search of better propellents for Yankee guns, has been one of the keystones of modern American life. But for this we would have no cellophane, celluloid, collodion, pyralin, or the bewildering array of plastics. From it has come our rayon, nylon, safety glass, quick-drying paints, artificial leather, and rubber. A large share of the new resins, adhesives, dyestuffs, insecticides, lucite, photographic films, cleaners, medicines, paper products, alloys, nitrates, solvents, ceramics, cosmetics, and similar adjuncts of

modern life owe their being to men who sought betterment for the American gun.

It has always been so. The pioneers were in a hurry to eliminate strife so that peaceful industry might flourish. Inventive minds turned readily toward more efficient and effective weapons for that purpose. There were savage hordes to conquer; a continent to develop; and our shores had to be protected from the clutching fingers of foreign greed until the infant nation attained adult strength. Visionary genius was busy in countless backwoods shops.

That their initial efforts went toward fashioning guns was only natural. It was the one absolute essential of life on the new frontier. From it came one's clothing, food, and personal safety. And excellent though the old gun was, it did have its shortcomings. There were defenseless moments consumed in reloading. Loose ammunition was susceptible to moisture, and it was inconvenient. Flints wore out quickly. Misfires frequently meant a lost scalp. Moreover, the ever-hungry powers across the sea were beginning to copy our spiraled rifling, patched ball, and accurate construction.

This brought out Hall's breechloader in 1811, to be followed quickly by those of Maynard, Jennings, Spencer, Sharp, and various others. Practical application of the fulminating cap, in 1814, by Thomas Shaw of Philadelphia, eliminated the open powder pan and made close-fitting, gas-tight chambers a reality. Maynard's first perforated-base metallic cartridge case, for use with percussion caps, quickly prompted Smith & Wesson, Spencer, and Henry to combine the two in one compact unit. It was the low-powered rim fire, but it paved the way for Oliver Winchester to adapt the forerunner of our modern center-fire cartridges to the first center-fire repeating rifle. Winchester's Hotchkiss rifle was the first bolt-action military gun manufactured for the army. Greene, however, worked out the bolt action idea, while Blakeslee designed the original clip-loading method. Gaintwist was another American invention, as was the chokebored shotgun. Gatling's machine gun was the daddy of our present insurance against Jap infestation. And Parrot's idea for brass rings on cannon projectiles that would expand to fit the rifling made rifled cannons practical. Colonel Colt bequeathed us a one-handed agent of peace that has never been surpassed.

Colt, by the way, picked up a thread of du Pont's powder smoke to mate it with an elusive spark generated by Franklin and Morse, thus showing man how to fire explosives from a safe distance by the use of electricity. Du Pont retaliated by searching Bessemer's steel for materials that would give Colt a gun capable of handling his powerful new smokeless charges safely. Offspring from these unions are today's towering skyscrapers, cantilever bridges, and underwater tunnels.

Powder is the main thing responsible for such colossal feats of engineering as the Panama Canal, Boulder Dam, and the harnessing of the Columbia for industrial use. Only scientifically compounded powders and improved blasting methods could have furnished our gigantic production of cement, iron ore, and other minerals. Only the development of safe explosives for use in gaseous and dusty mines made possible the production of the vast amount of coal needed to fabricate these metals into the industrial miracles of Yankee achievement. And only the work of men grown gray in the service of American guns enables us today to scour the slime of bestiality from the world.

The ammunition, gun, and powder industry have always attracted some of the best minds in science and engineering. It is doubtful if any other trade has contributed so much, in proportion, to research and invention. When war clouds hover, they have ever been prepared to throw up that essential front line of defense, as well as keep safely ahead of the best the enemy could contrive. In times of peace, they furnish us typewriters, sporting goods, construction ingredients, et cetera.

In fact, it is hard to visualize any aspect of America without seeing somewhere in it the reflection of the American gun. And what inspiring reflections they are: The freedom of individual enterprise; the Bill of Rights; freedom of the seas; the Monroe Doctrine; the building of a nation and the advancement of man's social and economic structure beyond twenty centuries of Old World progress in a scant hundred and fifty years.

America's growth may, in truth, be matched step by step by advancements in firearms construction. As the Long Rifle won a continent, so did each improvement advance the tide of civilization or suppress barbarism. The American gun, lineal descendant of the Long Rifle, has kept the Western Hemisphere free. Twice within our memory it has gone abroad to aid Europe. Today, all over the war-torn world, Yankee riflemen, supplied by Yankee gunmakers, are keeping the old traditions alive!

LOOKING AHEAD!

(FIRST OF A SERIES)

The Old Coach

WHEN THE WAR IS OVER, what can we expect in the way of organizations, local, state, and national, to carry on and extend the rifle and pistol shooting game? What kind of programs will be popular? What kind of range facilities will have to be provided?

Right now we cannot be sure of the answers to these questions, but there are signboards which point the general direction that the sport is most likely to take. The key to continued progress in the future, as in the past, is obviously *organization*. What can we expect, then in the way of—

Postwar Organization of Local Clubs?

The expanding interest in rifle and pistol shooting had already shown, before the war, that the long-established plan of civilian rifle club organization lacked needed flexibility. The rapid growth of small-bore rifle shooting and pistol shooting had introduced problems of administration into the old clubs where interest had long centered solely on .30 caliber shooting. The desire of industrial and community recreational associations to add target shooting to their programs had introduced other complications. Most such recreational groups are organized under bylaws of a very broad nature. In many cases the organizations are incorporated and charter provisions vary from state to state. Often it was found to be legally impossible, or definitely impracticable, for such organizations to adopt the standard club bylaws recommended by the NRA and the War Department. Yet, because of their professional management and local prestige, the community and industrial recreation associations provide one of the best fields for the promotion of interest in small-arms practice. Obviously, a more flexible plan of club organization should, therefore, be evolved for the postwar period.

Another trend before the war, and one which certainly will be accentuated after the war, was in the direction of mergers of small clubs into larger groups. The demand for improved range facilities can be met only by pooling the resources of *all* the shooters in each community. Perhaps sooner than most of us believe possible we will find the successful target-shooting clubs being operated by experienced managers paid to do the job.

An outstanding weakness in the prewar senior club organization was the lack of an officer officially designated as "Chief Instructor." When a tyro appeared at the range there was no officer, trained as a *teacher*, to make the new man feel at home and to see that he was given proper instruction in range discipline and in basic marksmanship. Literally thousands of prospective shooters were lost to the game every year because of this weakness in local senior club organization. Both the Armed Services and the NRA have learned a great deal since Pearl Harbor about training instructors and about teaching methods. Many men who were good shots and good *individual coaches* have now been trained to act as good *group instructors*. They have learned the *technique of teaching*. This program must be continued after the war. It must be given official recognition and encouragement by placing the Chief Instructor on the same basis in the club as that enjoyed by other club officials.

Most of these anticipated changes in local club organization will be effected gradually and will create only *local* ripples of excitement. It will be in the area covered by Leagues and State Associations that the more noticeable changes in organization will probably take place.

Postwar Leagues?

Leagues were becoming more and more important in the administrative picture when the war put a stop to widespread competition. There are excellent reasons why leagues should be the most important *administrative* units in local areas when the postwar competitive program is established. Some of these reasons are—

(1) The league provides a natural grouping of *competitive interests*. A league may be organized for service rifle shooting, for small-bore outdoor shooting, for outdoor pistol shooting, for gallery rifle shooting, or for gallery pistol shooting. The men who are participating in such leagues *are all interested in the same kind of shooting*. The officers elected to run the league can be men who are thoroughly familiar with the kind of shooting they are administering. Under such conditions the officers and members of the league get along with a minimum of friction and a maximum of fun.

(2) The league provides a natural grouping of competitors *according to geographical location*. Business and advertising men long ago recognized the fact that certain natural "shopping areas" exist and that these shopping areas are in no way connected with political boundaries such as city limits, county lines, or state borders. With the development of Registered Tournaments, it became obvious that similar natural "shopping areas" (competitive areas) exist among shooters. Certain tournaments regularly draw shooters from certain geographical areas, and this shooting area exists utterly without regard to political boundaries. Some of the outstanding prewar leagues included clubs from as many as three different states. These natural competitive areas are determined primarily by the relative ease of getting from one place to another by automobile and public carrier. Secondarily, they are determined by long-established natural rivalries existing between certain communities.

(3) An active league provides a flexibility of membership and administration which enables the league to carry on, season after season, in spite of the dropping out of one or more clubs and the initiation of one or more new clubs. Because all the league members have a common interest and are personally acquainted with one another, the loss of a good league secretary is usually taken care of by the election of another good man without loss of activity or intraleague political squabbling.

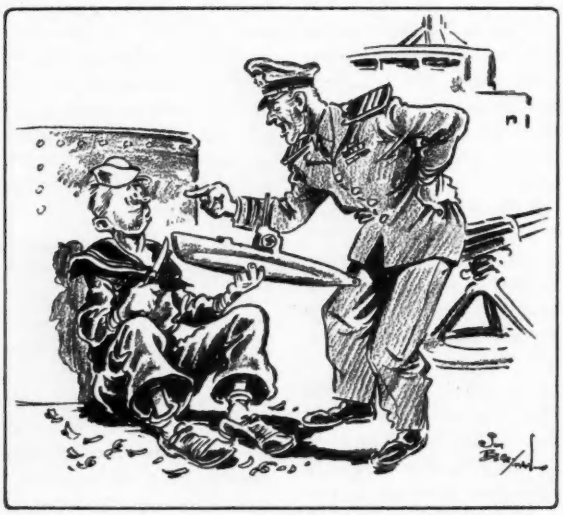
(4) Because the league shooting season is not unduly long, the men handling the league's affairs can always look forward to being relieved of their responsibilities on a definite date. There is a good distribution of the work load, and the men who are willing to work as officials do not feel that they are being unduly imposed upon.

(5) Because the league limits itself to one type of shooting and because it operates in an area which is usually a natural competitive area for other sports, it is generally easier to obtain reasonable newspaper publicity for league competitions than for any other kind of shooting event.

Well-organized leagues give definite promise of being a major factor in the expansion of target shooting after the war. This development of leagues will undoubtedly affect the—

Postwar Organization of State Associations

Prior to the first World War, the various State Rifle Associations were the dominant factor in the rifle-shooting world. Most big-time rifle shooting was of the high-power variety and it was naturally dominated by the Armed Services. In the normal course of events this meant that the National Guard in each state dominated the shooting picture and the State Rifle Association naturally functioned largely under the direction of the State Adjutant General. With the influx of civilians into the rifle-shooting game following the close of World War I and with the broadening of programs to include small-bore and pistol matches, the old type of State Association organization encountered administrative difficulties. Unfortunate friction developed not only between civilian and Guard officials, but even among different civilian groups. Arguments arose both with reference to political control of the State Association and with regard to the relative stress to be placed on various sections of the competitive program. Various State Associations experimented with almost every conceivable type of organization setup during the twenty years between 1920 and 1940. Long before Pearl Harbor suspended competition, it was evident that the State Association, as it had existed since the turn of the century, had been outmoded. The tremendous expansion in the number of shooters and in the types of competition, the development of nation-wide classification systems both for shooters and tournaments, and the comparative inflexibility of administration imposed on a State Association by the difficulty of obtaining truly representative attendance at annual or semi-annual meetings, all operated to reduce the importance of the State Association in the minds of the shooters. The artificial barrier raised by the confining limits of state boundaries was the final factor in swinging the interest of many clubs away from the State Association and in the direction of active, closely knit, but flexible, league organizations.



"I don't care how much experience you may have had as a duck-hunter! I'm telling you—the U. S. Navy does NOT use decoys!"

All of the factors that were operating before Pearl Harbor will be operating to an even greater extent in the postwar period. A few of the State Associations which, for reasons peculiar to their area, were able to adjust their administration and programs so as to remain strong and active during the prewar period may be able to survive the further changes which will follow this war. What of the others? Will there be any need for State Rifle and Pistol Associations in the postwar period? There will be a need. But that need can be fulfilled by a radically different State Association than any we have known in the past. The postwar State Rifle and Pistol Association will have only three real reasons for existence—

(1) To conduct the various State Championships.

(2) To co-operate with the Adjutant General in the selection of such State Civilian Teams as may be authorized to attend the National Matches.

(3) To represent the shooters of the State in matters pertaining to legislation.

Each of these functions requires a properly representative Committee, but none of them require a massive organization with a top-heavy Board of Directors and Executive Committee and a constant headache in the direction of collecting dues from clubs and individual shooters within the boundaries of the State. Everyone who has had anything to do with organization activities knows that the best results are accomplished by placing a project in the hands of a very small Committee of capable, aggressive workmen. The bigger the Committee, the less likelihood there is of getting anything done. The more massive the organization, the greater the tendency to play politics in order to gain control.

The kind of State Association which will have the interest and support of the shooters, because it will operate efficiently and with a minimum budget, will be in effect a "State Council" rather than a State Association. This State Council will consist of four to six small Committees of three to five men each. These Committees will be elected to do specific jobs. They will, therefore, consist of men who are thoroughly acquainted with those particular jobs. There will be a Small Bore Committee, a Pistol and Revolver Committee, a .30 Caliber Committee and a Legislative Committee. In some cases it may be found desirable to elect separate Committees to conduct the indoor and the outdoor small-bore state championships, and the same plan may be followed in the case of the indoor and outdoor pistol and revolver championships. If this is done, there will be six Committees instead of four. The President of the State Council will probably be the Chairman of the Legislative Committee. The .30 Caliber Committee will be charged with the task of co-operating with the Adjutant General in the selection of National Match Teams as well as

with the responsibility for holding the .30 caliber state championships. The functions of the other committees will be to stage their respective state championships.

The election of Committees will be accomplished by the votes of delegates, one from each active club in the state, or if the state is well organized into competitive leagues, the election of the State Committeemen will be still further simplified by having the votes cast by one delegate from each league.

This kind of State Association will have no worries about collecting dues because it will not be necessary to collect dues. Properly run competitions pay for themselves. Small, properly selected committees will stage competitions which *will* pay for themselves and leave a little profit in the treasury of the State Association. Subsidies from the National Association will provide for such expenses as will occasionally be incurred by the Legislative Committee. The failure of any committee member to function properly can be quickly corrected by the Committee Chairman or by the President appointing someone else to that particular Committee. Because each Committee will have its definite sphere of activity, there will be a minimum of glory and a maximum of work from the men who are elected—which is a situation likely to discourage "politicking" by the glory hunters. At the same time, because each Committee will have a specific job, which job will be completed by a specific date, it will be possible to persuade good men to take the Committee assignments. This is the kind of a streamlined State Association that will be in keeping with the times when the war is over. With the leagues taking care of natural competitive areas and with the National Rifle Association taking care of the Registered Tournament and League programs and the national classification of shooters, this "State Council" type of organization will meet all the requirements of the situation within the state.

The National Rifle Association:

Time has demonstrated that the basic organization of the National Association is sound. Through its Executive Committee and special subcommittees, the National Association already functions along lines similar to those forecast above for the postwar State Association. It may, of course, be anticipated that within a few years after the war is over there will be an almost completely new set of faces at the Annual Meetings of the Association's Board of Directors. New men with new ideas will take the place of many of the old-timers, just as those who are now old-timers went on the Board as new men following the last war. The long-cherished ideal of NRA branch offices will probably be realized. From these branch offices in close contact with the shooters in their area, NRA representatives will be able to do a great deal in the direction of training club officials and improving the administration of clubs and leagues and the handling of local tournaments. Perhaps there will be added to the basic and advanced small-arms schools at the National Matches a school for club officers and official referees.

Next month we will "look into the crystal ball" to see what the future holds in the way of postwar competitive programs.

Look Out Below!

(Continued from page 16)

them. It's easy to score the hits by counting the clank of the empty rocket projectiles against the tank hulls.

Next day the maneuver continues, with a similar series of developments. Only, this time, the carbine men swap with the Garand soldiers, light-machine-gun crews trade with mortar squads, and so on. This rotation is continued through the week, so that every man is exposed to combat situations with a wide variety of weapons.

Their supplies are replenished by parachute bundles dropped to them under the same handicaps that would be sure to apply in combat: that is, the group is hard to find; enemy fighter planes must be evaded; and the bundles must be dropped well away from the actual position of the ground detachment to avoid spotting it for enemy artillery observers. The group must then detach part of its strength on the hazardous mission of locating and securing the supplies (perhaps from the top of a high tree) and dragging them back to base under snipers' fire. This teaches them firsthand to conserve what they have. Concrete results appear as the maneuver continues. They begin to shoot only when they have a target, and they learn to make one round do the job instead of using two or more.

Suddenly, a control officer appears and assembles the group. He leads them to a "hasty" landing strip where they are given fresh supplies and emplaned for a night jump. Their mission this time is to attack a fortified position under cover of darkness, with more live rounds zipping around from "enemy" snipers in trees and pillboxes. They crawl through mud and swamp, into and around shell holes and old entrenchments, under barbed wire. When the objective is attained, each man's weapon is inspected to see whether it is still in operating condition, and another lesson is brought home: that it does no good to infiltrate miles into the enemy position, if, when you get to the fire fight, your weapons are clogged with mud, sand, or water. You may have been a brave guy, but now you're as helpless as a newborn babe, and the operation is a failure. They don't pay off for getting into close quarters with the enemy unless you are able to overwhelm him after you get there!

For days the maneuver continues, with dawn attacks, strafings from "enemy" fighter planes, stream-crossing under fire, and other typical combat situations. As a grand climax, each group is steered into a "meeting engagement" with a similar group. Here, of course, live ammunition firing is suspended, and blanks are used. But the student who has just come through days of firing live rounds, and of seeing other live rounds splat into the ground around him, has no trouble visualizing what it would be like if the final phase still involved live ammunition. He has made his quota of mistakes, and has seen the "enemy" make about as many. In combat, he realizes, such mistakes could easily turn out to be a man's last.

That's one of the reasons why the communiques from the various theaters of war, reporting on parachute-troop operations, have recently been saying in conclusion: "Our casualties were much lighter than were anticipated." So may they ever be!

No One Else Will Remember This—*But I Do*

By WES HANSCHE

IT WAS IN '34 that I first got to Perry. I was a farmer then; I still am. I was lost. My overalls didn't match the clothes of other shooters. I worried. But I entered the matches; entered them all. Carried my 52 with the Titherington barrel around with me everywhere. I shot 200 yards for the first time; saw Schweitzer win the match.

But throughout that week I was shooting my best. The RWS tryouts showed that I was tied with three others for high place. The RWS Captain that year was Canfield. He looked at me, looked at my record. He couldn't be sure of me. I was just a nervous farmer in overalls, unheard of, a novice at Perry. . . .

In the second fifty-meter match, I cross-fired! Was down as I remember it, twelve points. Was I downhearted! The range officer walked up to me and said, "Never mind, farmer. Cross fires don't count in placing on the RWS Team."

That was the first time Merritt A. Edson gave me a moral lift. He wasn't a team officer. He was a professional soldier, a captain then, a man who already held the Navy Cross. I was a farmer, a tyro at Perry.

I didn't sleep the night before the RWS match. On the range that morning, I still didn't know if I was to shoot. I walked up and down, chewed grass, and worried. . . . Then Canfield walked up to me and said, "Farmer, you're shooting on Number 4."

It was cold that morning, but I was sweating. "God, help me not to be the low man!" Maybe my prayer was audible. Anyway, Captain Edson walked up to me. "Well, Farmer," he said, "you've made the team. Your *tough* shooting is over. Get some blankets and lie down and relax." His voice was calm, impersonal, stating a fact. And because he is what he is, *he transferred his confidence to me!*

Need I tell you that I have that "sighting in" target, with Captain Edson's signature on it, framed? That I have the clipping from TIME attached to it—and that I'm placing the cover of the March RIFLEMAN beside it? One of the boys from my neighborhood went in to the beach at Tarawa under Edson. He won't come back. But I venture the opinion that, if that boy could talk to me, he'd say, "To have served under General Edson made it worth while!" This, I believe.

Some of us are at home, doing the same jobs we did before the war. We feel, honestly, that our jobs are a necessary part of the war effort. But many of "our gang" are in the Service, and somehow I just don't "feel right." A year ago when I saw some of my own carrots processed, packed in export cases with the familiar crescent and stamped "Quartermaster, United States Marine Corps, Guadalcanal," I felt a little better. Edson, *Lieutenant Colonel* Edson now, was *there*.

But whatever we do is little enough! What *more* can we do? As for me—I'm just farming as I never farmed before!

NAVY CROSS GOLD STAR

General Merritt A. Edson, USMC, whose medals include the Congressional Medal of Honor and British Distinguished Service Order, has been awarded a Gold Star in lieu of a second Navy Cross for service in the Solomon Islands.

The citation was for services as a commanding officer of a combat group which landed on Japanese-held Tulagi Island, August 7, 1942. More than a year ago, General Edson was awarded the Congressional Medal and British Distinguished Order for heroic leadership on Guadalcanal.

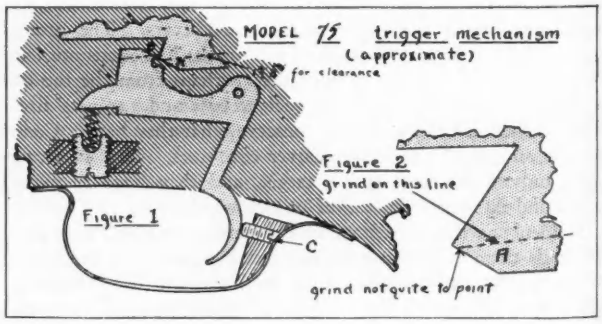
M75 TRIGGER PULL

By R. Q. SINCLAIR

A STUDY OF THE TRIGGER MECHANISM of the Winchester Model 75 will show that the firing pin projection (sear) at A and the trigger at B have sloping surfaces. When the trigger is pulled, it releases the firing pin which then moves forward (to the left in Figure 1). During this forward movement, these two sloping surfaces engage each other and the trigger is forced back a considerable distance before the firing pin can pass. This results in a long and annoying trigger pull, regardless of the weight thereof.

This may be completely eliminated by the judicious application of the grinder. Grind off these sloping surfaces along the dotted lines shown in the drawing, being careful to give about a degree or two back slope for clearance. This grinding must be done with the utmost care. It should end just a hundredth of an inch or so before the engaging point of the trigger and firing pin are reached. This leaves the actual contacting portions untouched. The pull of most of these guns is very good. However, if necessary, the two points of contact can be polished so they will break clean and crisp.

Having eliminated the long pull, all that remains is to install the customary stop screw in the trigger guard. This is a relatively simple matter. This guard is really too thin to take a good thread for a screw so it is better to shape a small bit of metal, say a quarter of an inch thick, to fit inside the guard as shown in Figure 1. It may be desirable to bend this guard slightly to a better shape for applying this steel piece. When this has been done and the piece filed to shape and fitted, it should be welded to the inside of the trigger guard as shown. Then drill and tap for the stop screw (C).



(The screw should fit tightly in the guard.) The screw should be adjusted to stop the trigger just as the firing pin falls.

If the sloping surfaces of the trigger and firing pin are properly ground, this stop screw may be adjusted so that there will be scarcely any movement apparent when the trigger is pulled. The weight of the pull is not disturbed in any way by this alteration and it may be changed as required by means of the usual adjusting screw (D). The final operation is, of course, reblueing and polishing the guard.

Of course, it will be impossible to remove the bolt by drawing the trigger back in the usual way, but with modern ammunition this is not necessary as often as it used to be. When the bolt must be removed, simply back out the screw until the trigger can be pulled back enough for bolt to clear.

At least ten thousand rounds have gone through my M 75 since I altered it in this manner and no trouble or malfunction has been experienced. While it is usually not possible to reduce the trigger pull on this rifle below three and one-half to three and one-fourth pounds, with so perfect a pull, it isn't at all necessary or desirable. A wide trigger shoe fitted to this gun also has a salutary effect. It seems further to reduce the weight of the pull without actually doing so.

Proper bedding of the barrel and action in the stock is important in any rifle and the M 75 is no exception. I have found that in some cases the barrel band adjusting screw will go all the way through the stock without drawing the band down tight. This calls for a new band. But if this point is OK, it may be desirable to place several shims of ordinary target tagboard between the barrel and the stock, beginning at the receiver and ending with one on each side of the barrel band. Sometimes it may be necessary to work off a little wood with sandpaper, but do this carefully. The aim is to make the barrel fit the stock snugly all the way from the receiver to the band. Make it snug but not too tight.

After working my M 75 over in this way, it showed the most extraordinary improvement in accuracy.

8MM. FROM .30-'06

By A. M. SCHNETZLER

LACK OF EMPTY CASES need not be an insurmountable obstacle to further handloading provided it is possible to obtain cases of a size similar to those needed. My own problem was to provide fodder for my Model 1898 8 mm. military carbine; but a similar solution might be worked out to fit other needs.

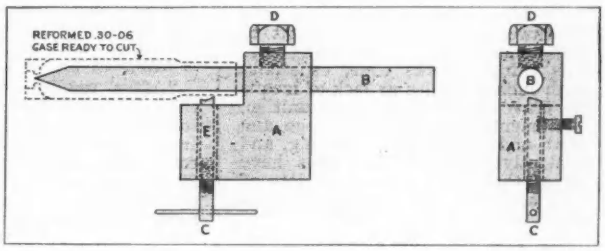
There is little difference, except in length and location of shoulder, between the 8 mm. and the .30-'06 case. Having plenty of .30-'06 cases on hand, I obtained a full-length 8 mm. sizing die and, with the aid of a large vise and plenty of elbow grease, proceeded to turn out some 8 mm. cases. The first cases so made were somewhat wrinkled, due to a too generous application of lubricant; but that difficulty was overcome by omitting the heavy grease first used and merely rubbing subsequent cases with a slightly oiled rag. Cases so treated came out of the sizing die easily and were perfectly smooth.

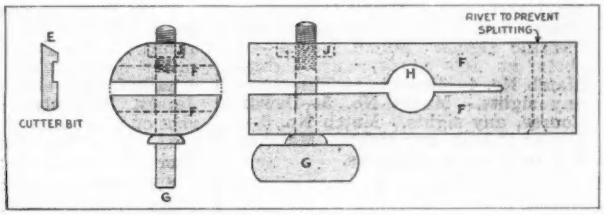
This gave me cases of the required size and shape except that the necks were about one-fourth of an inch too long. I tried many methods of cutting of that unwanted quarter-inch, but no method I tried turned out a satisfactory product (a clean-cut, straight-lipped case) until I made up the miniature hand lathe shown in the diagram herewith. As shown, the shell is revolved on an arbor against a small cutting tool fed into the metal by means of a fine-threaded screw. Care must be taken not to crowd the bit. Too much pressure against the bit will cause it to gouge and tear the case. Once the cut is completed, the burr can be removed from inside and outside the case by means of a Wilson Burring Tool.

The sketch shows the cutter bit loosely fitted. This is merely for purposes of clarity in the drawing. Actually, the cutter bit should be of a size that will just work freely in the hole in which it operates. If it is too loose, it will be difficult to maintain a uniform length in the cut cases.

I load these 8 mm. cases with reduced loads, using Ideal .32 Special cast bullets number 321232 sized to .323. (The bore of my rifle is .322.) Bullets are cast of a hard mixture, about 90 per cent lead, 5 per cent tin, 5 per cent antimony. They are seated to such depth as to make the overall length of the loaded cartridge two and fifteen-sixteenths inches. The charge is fourteen grains number 2400 powder. This load proved very accurate. Fifty yard bench-rest groups were about the size of a dollar. Hundred-yard groups were proportionately good.

I have also loaded these cases with forty grains Number 2 Hi-Vel behind metal-patched 236-grain soft-point bullets. Results were good, and certainly plenty accurate for deer shooting at such ranges as are generally encountered in the East.





The 236-grain metal-patched bullet, with 40 grains Number 2 Hi-Vel, impacts the same, in elevation, as the load first described. The only difference in the point of impact of these two radically different loads is in windage, the heavy metal-cased bullet striking three inches left of the center impact-point of the alloy-reduced load, at one hundred yards.

Reforming .30-'06 cases to 8 mm. in a vise is tedious and the process could be shortened by the use of an arbor press. However, these reformed cases last much longer, in point of repeated reloadings, than factory 8 mm. cases.

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remington DU PONT News

BRIDGEPORT, CONN.

Possibles and Impossibles

by **FRANK J. KAHRS**

A few years ago while attending a Small Bore Shoot at Tulsa, Oklahoma, with an old-time rifleman friend from Texas, we were invited to the local broadcasting station to take part in a radio program. I have been up in the air many times literally and figuratively, but it was the first time I had been on the air on a real broadcast. Yes, I was nervous. Who wouldn't be? But we kept up a three-cornered conversation for about ten minutes and told the world about rifle shooting and what an interesting sport it was. We didn't get any fan mail, but we heard a few comments here and there from friends who had tuned in on us, and we really felt quite proud of ourselves.

We then forgot about the whole thing; but, the other day I had a letter from the fellow who broadcasts and who put us on the air that day. He was all het up over plans in Tulsa to hold the Sixth Annual Magic Empire Small Bore Rifle Tournament on Sunday, June 11.

We know that the Magic Empire Shoot has developed into one of the outstanding tournaments in the Southwest, and we really want to compliment the boys on going into this thing at this time, especially with such obstacles as lack of means of traveling, lack of ammunition, equipment, etc. Takes courage and faith and all that sort of thing, and evidently the Oklahoma boys have all of that. We wish them lots of luck and hope and know that their shoot will be a grand success.

By the way, the program is an ambitious one for one day. Match No. 1—40 shots at 50 yards, metallic sights. Match No. 2—Dewar Course, metallic sights. Match No. 3—40 shots at 100 yards, any sights. Match No. 4—40 shots at 50 meters, any sights. Match No. 5—Dewar Course, any sights. Match No. 6—Dewar Course, any sights. Matches 7, 8 and 9 are Aggregates.

* * *

For some time now I have noticed the growing interest in rifle shooting in the state of Michigan, but more particularly in and around the city of Detroit. It has been very gratifying indeed to note how quickly the interest has spread, and it seems to be permanent too.

Now I have always known that things just don't happen. You have got to start the fire before you get the pot to cook. So, I traced all of this to a group of men who recently formed the Southeastern Michigan Rifle & Pistol Association. If you look among the names of the men connected with the Association, you will find the head man has been boring in on rifle shooting promotion

for several years now. Due to his newspaper connections he has cashed in with publicity to the point that the Legislature has kicked in with appropriations to enable the building and maintenance of ranges. The city of Detroit is doing likewise.

Yes, rifle and pistol shooting in Michigan is on the march and you're going to hear more about the Southeastern Michigan Rifle & Pistol Association in the near future.

* * *

It's always interesting to know something about the other fellow's activities, especially when you're feeling pretty proud about yourself and what you are doing. So, here's what one outfit up in Pennsylvania is doing on pre-induction activities:

"After reading your column in this month's 'Rifleman,' I would like to tell you something about our Pre-Induction Training School. We are conducting our tenth class now with 22 students registered. Six girls included. We have graduated 214 riflemen from these classes, which we have been running for sixteen months.

"Our range is one of the finest I have ever visited and I have just returned from the very famous fifty-meter shoot held annually by the equally famous club in Paterson, New Jersey. The only other range I have shot on is the Indoor Dewar at Cleveland, Ohio. This was the finest indoor shooting I ever enjoyed.

"We are sponsored by the local Police Chiefs Association and the rifle club. We have sixteen NRA Qualified Instructors with three of them graduates of the Small Arms School at Quantico. Three of our instructors are girls. They take care of the girl students.

"While we are interested primarily in the men of military age, we take students of all ages and both sexes. It is our idea that the good old game of target shooting should be kept up as best as we can with limited supplies. All our instructors manage to shoot at least once a week, and we have been fortunate enough to have a few matches with the instructors of some of the near-by schools."

FISHERIES STATION MAKES OCEANS FOR REMINGTON

When we were setting up a system for testing Remington military ammunition, we ran into a little problem of geography.

How were we going to test this ammunition under all the *ocean* conditions of this global, amphibious war—from the poles to the equator—without spending too much precious time?

Land and air conditions were, of course, easily duplicated in the Remington Research Laboratories, from arctic wastes to tropical deserts and from ground level to the stratosphere. But *oceans*—?

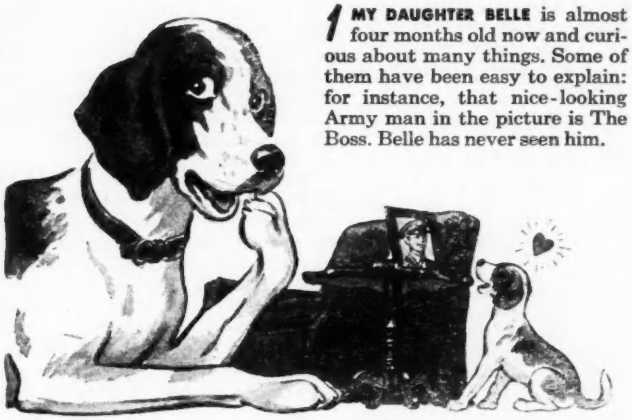
Fortunately, we discovered that we had seven seas almost in our back yard! They were in the Milford, Conn., Biological Laboratories of the U. S. Department of the Interior Fish and Wildlife Service—only a few miles from Bridgeport—where, in big tanks built primarily for the study of shellfish, scientists could duplicate any ocean water in the world.

So here, in this fisheries station, we started drenching sample lots of Remington ammunition in arctic, temperate and tropical sea sprays—submerging it in all kinds and temperatures of sea water—even burying it in various kinds of bottom mud and sand and kicking it around a bit, to simulate what happens when ammunition cases are washed ashore. Then we test-fired it.

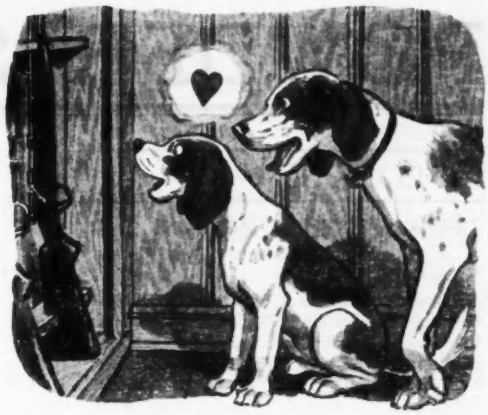
The results, we're glad to say, fully bore out that old axiom: *"If it's Remington, it's right."* Remington Arms Company, Inc., Bridgeport, Conn.

THERE'S ONE IN EVERY CLUB . . . The Exp
HE GOT IT AT AN OLD PHOTOGRAPH SHOP – SAYS ITS WONDERFUL F HOLDING STEADY!
MAYBE IT HELPS BUT A SANDBAG IS JUST AS LEGAL!

How much should a mother tell her daughter?



1 MY DAUGHTER BELLE is almost four months old now and curious about many things. Some of them have been easy to explain: for instance, that nice-looking Army man in the picture is The Boss. Belle has never seen him.

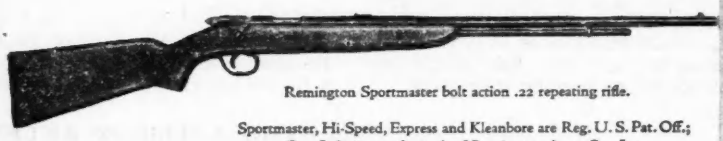


2 BUT the other day I found Belle nosing around The Boss's favorite .22 rifle—the Remington Sportmaster. "Mom," she asked, "what's this swell-looking gadget for?" Well, how much should I tell her? Obviously, this eager young pup will never know the joys of romping through the fields with The Boss until The Boss gets back. Would her ears droop to learn what she was missing?

3 I DECIDED on frankness. "Belle," I said, "that's a Remington Sportmaster bolt action .22 repeater—made by the same people that made The Boss's Model 31 shotgun. The Boss and I would go out for long cross-country walks together, and he'd take along this Sportmaster and some Remington Hi-Speed .22's—'just for the fun of it,' he always said. And what fun it was!"

4 "AND WHEN THE BOSS COMES BACK, what swell times we'll *all* have! The Boss, Remington Sportmaster, you and I. But that's something to be very patient about, Belle." And then Belle said something that made me very proud of her. "Gosh, Mom," she sighed happily, "that *does* sound doggy! And will you teach me what to do so that The Boss will like to have me along?" My daughter was no longer the heedless, scatterbrained Belle of puppyhood. She was growing up!

► You probably don't have to be reminded that Remington has produced vast supplies of military arms and ammunition for our armed forces. For months on end we produced 30,000,000 rounds of military small arms ammunition—*per day!* We also produced—*per day*—more than enough military rifles to equip an entire infantry regiment at full fighting strength! And soon—we hope—we will once more be able to furnish sportsmen with Remington shotguns and rifles, Remington Express shells, Remington Hi-Speed .22's with Kleanbore priming, and Remington big game cartridges with Core-Lokt bullets. *Remington Arms Company, Inc., Bridgeport, Conn.*



Remington Sportmaster bolt action .22 repeating rifle.

Sportmaster, Hi-Speed, Express and Kleanbore are Reg. U. S. Pat. Off.; Core-Lokt is a trade mark of Remington Arms Co., Inc.

REMINGTON HI-SPEED .22's

When ammunition is again available, be sure to ask for Remington Hi-Speed .22's with Kleanbore priming!

Remington

DU PONT

If it's Remington It's Right

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

THANKS FROM THE BIG GUNS

APO 305, New York.

Editor:

I hope some day to be able to tell you how much my membership in NRA and its affiliates, the Rutland County Rifle and Pistol Club and the Vermont State Rifle and Pistol Association, has meant in fitting me to perform the duties which I have been called upon from time to time to perform. You wouldn't think that training in small-arms shooting would be of much use in a medium artillery outfit, but I have found it invaluable. Keep up the good fight against anti-firearms legislation, and keep the pre-induction training program and THE RIFLEMAN going.

Capt. Richard C. Smith.

MAGAZINES IN BARRACKS

Hawley, Pennsylvania.

Editor:

My son, now in the Army Air Force and recently home on furlough, tells me that his outdoor magazines and especially THE RIFLEMAN are widely read in barracks, that they lead to keen discussions and help immensely to keep up morale. The men discuss the guns they used in civilian life, the ammunition used, the sights, etc. They discuss, too, the weapons they are using in the service, and the weapons they hope to use after the war. These evenings of talk keep the men pleasantly occupied and away from the danger zones near the camps. You are to be commended.

Julia M. Hammill McGinty.

ON THE RECORD

Fort Custer, Michigan.

Editor:

Having qualified Expert with the Enfield 1917 (with which we began our training) and later with the Garand M1, my Captain asked me what previous shooting I had done. I told him that I had had NRA training with my local rifle club and he entered that fact on my soldier's record. I tell you, that training back home sure helped me, and I have been able to help others here because of it. Keep up the good work with the boys at home, for it sure helps them after they get in the army.

Pfc. Milton Taylor.

A MOTHER'S THANKS

Newton Centre, Massachusetts.

Editor:

I wish that I could express adequately my sincere appreciation and gratitude not only for the training in shooting which my son has received but also for the fine influence that goes with it. The leadership, inspiration, and associations my son has enjoyed have been priceless and will not soon be forgotten. The art of shooting, taught under qualified leadership, does something very unusual and remarkable for young men. It gives them keenness, alertness, and good sportsmanship: the desire to be "a straight shooter" in both senses. Wishing you continued success, and with my sincere thanks for all you have done for my son, I am, a very grateful mother.

Mrs. Elsa F. Anderson.

NOT OVER THIRTY!

APO 716, San Francisco, California.

Editor:

"We have found that our riflemen can shoot rings around the Japs. A friend of mine, Lieutenant George (used to be in the President's Hundred) got into Guadalcanal, hiked up to the front right away and got a Jap at 400 yards. Later in the attack on Mt. Austen he got nine more, two of them at *four feet*, with the pistol. The war has been a brilliant confirmation of the value of trained riflemen. Our crack shots are far more confident, nervy and dangerous. They go out of their way to get action.

"A Marine private, a crack pistol shot from Montana, asked me to go out with him on patrol. He said that if we had two M1 rifles and two pistols we could jump any gang of Japs up to twenty but that we shouldn't tackle over thirty. I declined the invitation!"

Major James R. Bright.

JAPS COVET GARANDS

In a clipping from the San Antonio, Texas, *Express*, forwarded by H. D. Sheppard, comes word of the Japanese opinion of the rifle they are facing in the South Pacific.

Colonel R. N. Bodine, commanding San Antonio Arsenal, says that the Japs captured a number of Garands in the Philippines, used them later in the Buna and Lae-Salamaua campaigns. They wanted more, and were constantly trying to infiltrate behind American lines to seize guns. "Few Garands were actually stolen," Colonel Bodine said, "but the Japs continue to try to get what they regard as their prize trophy of jungle fighting."

The Japs take infinite pains to prevent their own equipment from falling into the hands of ordnance observers. In New Guinea, for example, they buried all of their optical equipment, large quantities of ammunition, and even large field pieces.

YES, VERY

John Kieran, in his "Sports of the Times" column in the New York Times, recently quoted "a former champion rifle shot:"

"The time is about ripe to urge the Government to install Federal-owned rifle ranges all around the country, the size of the range to be determined by the population of the vicinity. I remember Creedmoor . . . The New York State Guardsmen used to shoot there. . . . The New York State team won the national team championship from 1901 to 1904 inclusive. Then the range was dismantled and from that time on the New York State team was just another team. If you want good shooters you have to have ranges on which to train them."

Kieran then adds, "It appears now that the ranges should have been set up in 10,000 communities ten years ago. Rifle shooting suddenly has become very important again."

NO AMMUNITION SHORTAGE HERE

Jack O'Brien, aged eighty-two, of Patagonia, Arizona, an old-time peace officer of the shootin', tootin' days of Arizona, dropped into the office of the Arizona Game and Fish Commission just before last hunting season to inquire about shells for hunting. He was told that some shells would be available later, and that he could get a box then.

"Box?" he said. "Hell, son I don't need a box. All I want's two shells."

He got the two shells, from a man who read the item in a local paper. And he got his deer! One shot was all that was needed.

"Got a shell left for this year, too," he said, when he reported his kill.—Arizona Game and Fish Commission News Letter.

NEW BOOKS

"TEXTBOOK OF AUTOMATIC PISTOLS"

By LT. COL. R. K. WILSON, Royal Artillery

This is one of the best printed and best illustrated books in the long series published by the Small Arms Technical Publishing Company. On the other hand, it is probably the worst edited of the series.

The major portion of the book deals with the history of the development of self-loading pistols and gives the most complete photographic and textual description of the mechanical construction of European and American "automatics" and the ammunition therefor of any work in the English language.

The editorial weakness of the book lies in the fact that it does not stop with its authoritative treatment of semi-automatic pistols. It goes on to a discussion and description of machine-pistols, submachine guns and machine rifles, and nearly all of that discussion is badly out of date because most of the weapons mentioned have been considerably modified and improved, or discontinued as obsolete. Another editorial departure from the true text of "Automatic Pistols" lies in the now out-of-date discussion of the role of the tank with the accompanying thought that "the day of the infantryman, perhaps, has passed." The use of the British nomenclature and spelling is also, on occasion, a mental stumbling block to the American reader. The failure to treat sympathetically and in some detail the excellent American .22 semi-automatics will cause some American pistoleers a moment of regret if not resentment.

Despite its weaknesses in editing and make-up, which would have been easily excusable in almost any publisher other than Thomas Garvine Samworth, the book is an indispensable item for every library which makes pretense of covering the gun world. As a technical reference book on self-loading pistols it is complete, authentic, and in a class quite by itself.—C. B. L.

(349 pages, illustrated, $6.00, Small-Arms Technical Publishing Company, Plantersville, S. C. For sale by NRA Book Department.)

STOLEN GUNS

One Winchester Model 70 .22 Hornet, Number 28611, with Weaver cross-hair scope, Stith mount. Reward. M. J. Neskovich, 326 Wood Street, Reading, Pennsylvania.

One Colt Official Police .22 LR, six-inch barrel, Number 11538, Fray Mershon grips, lanyard loop on butt; in Myers left-handed Border Patrol holster. Francis York Allen, HQ (S-3) AGF, RD Number 1, Fort George G. Meade, Maryland.

COMING EVENTS

Registered Class C Tournaments

Georgia, August 27—Rifle Tournament, Deerfield, Sheridan Rifle & Pistol Club, Inc. C. Myron Huls, 1821 Broadview Ave., Highland Park.

September 10—Pistol Tournament, Deerfield, Sheridan Rifle & Pistol Club. C. Myron Huls, 1821 Broadview Ave., Highland Park.

Iowa, June 11—.22 Caliber and Center-Fire Pistol Tournament, sponsored by Scott County Sportsmen's Ass'n. H. J. Jensen, 930 W. 14th Street, Davenport, Iowa.

Maryland, June 18—5th Annual Maryland Revolver & Pistol Championships. Marcus H. Miles, Sparrows Point, Maryland.

Michigan, June 4—Annual Spring Pistol.

July 30—Annual Mid-Summer Small Bore.

August 20—Annual Mid-Summer Pistol, all sponsored by Flint Rifle & Pistol Club. A. J. Marxhausen, 2521 Thomas Street, Flint.

Montana, June 25—Annual Rifle Tournament, sponsored by Anaconda Rifle & Pistol Club. E. J. Perro, Box 1102, Anaconda.

New York, June 4—Pistol Match, sponsored by Grumman Gun Club. R. C. Bowman, Grumman Engineering Corp., Bethpage, L. I.

July 1-2—Rifle Match, sponsored by Grumman Gun Club. R. C. Bowman, Grumman Aircraft Engineering Corp., Bethpage, L. I.

September 3—Pistol Match, sponsored by Grumman Gun Club. R. C. Bowman, Grumman Aircraft Engineering Corp., Bethpage, L. I.

October 8—Rifle Match, sponsored by Grumman Gun Club. R. C. Bowman, Grumman Aircraft Engineering Corp., Bethpage, L. I.

Oklahoma, June 11—Magic Empire Small Bore Tournament, sponsored by Veterans of Foreign Wars and Tulsa Rifle Club. Dixie Clark, 114 S. Detroit, Tulsa.

Nonregistered

Montana, June 15—Junior State Championship Match, Anaconda, sponsored by DeMolay Rifle Club. William Spady, 3104 First Avenue, South Great Falls.

Ohio, June 10-11—7th Annual Muzzle-Loading Rifle Match, Fort Harmar Rifle Club. H. W. Meiser, 621 7th Street, Marietta.

Indiana, June 18, July 16, August 20—Outdoor small bore, Michigan City Rifle Club. J. Y. Murphy, 701 Franklin Street, Michigan City.

New York, June 18—Roslyn Rifle and Revolver Club Pistol Tournament, outdoors. William E. Peterson, 210-14 34th Road, Bayside, New York.

RECIPROCITY

Whereas the Tamalpais Revolver Club, Sausalito, California, is conducting a Small Arms Firing School to train marksmen for the Army—the Army, or at least one officer in it, is sufficiently grateful to give the Tamalpais Club's classes special instruction in the use of individual army weapons.

Captain J. M. Taylor, U. S. Army Air Corps, is a busy man. He is Base Plans and Training Officer at Hamilton Field, the Air Corps' Pacific Coast jumping-off place. His training job is big enough and complicated enough and well enough done to justify him if he felt that he was doing all any one man could be expected to do in the way of training Young America to shoot. But Captain Taylor has no such notion. After a week of supervising the training of hundreds of bomber and fighter

Captain J. M. Taylor, USAAC, who believes that one good turn deserves another—and does it!

crews the skills required for the expert use of the Colt .45, the M1 Carbine, submachine guns of all kinds, machine guns light and machine guns heavy, up to and including turrets bristling with "fifties," Captain Taylor takes a busman's holiday by devoting part of each Saturday to helping with and broadening the pre-induction marksmanship training of boys not yet in the Army—but boys who will be in the Army soon, and who will be immeasurably helped by the training they are getting prior to induction.

This, in our opinion, is service "above and beyond the call of duty." Thank you, Captain! May your tribe increase!

ARE RIFLE CLUBS WORTH WHILE?

He was a gangling kid, sort of quiet, a junior member of the Port Washington, New York, Rifle and Revolver Club. His dad gave him preliminary rifle instruction but, beyond usual supervision, nobody paid much attention to him. He'd watch the older men, and sometimes he'd hang up a pretty good score. But he never bragged about it. Freddy Perrick wasn't that kind of a boy. Just a nice kid.

Then before we knew it, he was Private Perrick of the Marines, and we didn't see him at the range any more. He was getting along fine, his father said, and liking it.

Next we heard, his group of recruits (some 516 men), went on the line for qualification. All were pretty good shots by that time. Marines are apt to be. But who shot high score among these 516 earnest contestants? Young Freddy. Made 323 out of 340; within spittin' distance of the range record.

He wrote home about it. Said the General was coming down the next day to pass out the medals.

He's Pfc. Perrick now, and a Rifle Coach. He'll squirm with embarrassment over this notice. But he'll have to take it. For it describes more than the achievement of one young Marine. It shows the results toward which the NRA and its clubs are aiming.

James O. Moore

Captain James O. Moore, officer in World War I and veteran also of the Spanish American War, died May 5th at his home in New Orleans as a result of burns suffered some ten days earlier. Captain Moore was an NRA member of long standing, winner of many rifle trophies, for several years match executive officer for the Crescent City Rifle and Pistol Club. He was for many years a Boy Scout Commissioner in New Orleans, instructor in marksmanship and first aid, and in charge of one of the New Orleans Small Arms Firing Schools. His death, at the age of sixty-two, is a distinct loss to the shooting game.

Marvin B. Letcher

Marvin B. Letcher, of Reading, Pennsylvania, former Pennsylvania State Champion rifle marksman, member of several Pennsylvania teams at Perry, died early in May after a protracted illness. He was an active shooter, an NRA member for many years, member of the Seneca and University Rifle Clubs. Although a specialist in .30 caliber shooting, he was also an expert smallbore and pistol shooter. Well known to all the shooting fraternity, Marvin Letcher was a real sportsman whose place in shooting circles will not soon be filled.

Lucius R. Orton

NRA Life Member Lucius R. Orton died suddenly, April 9th, as a result of a heart attack. At the time of his death, aged fifty-seven, Orton was county fire warden in Santa Paula, California. He had formerly devoted several years to police work. He was a member since 1925, and Past President, of the Santa Paula Rifle Club and will be remembered by 1927 Camp Perry shooters as a member of the California Civilian Team. His passing will be keenly felt by shooters everywhere.

Henry A. Rich

It is with deep regret that we learn so belatedly of the death of Mr. Henry A. Rich, veteran rifleman and gunsmith of Pasadena, California. Mr. Rich died in October of last year. "Hank," as he was affectionately known to the shooters in his area, was noted for his interest in bringing new shooters into the game. He was an old Camp Perry shot and was a guiding spirit in the Pasadena Rifle Club.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Lofberg Bullets · Methods and Equipment · Deheader for B. & M. Tool · Lead-Exerusion Die · Bullet-Making Requirements · Improved Methods · New Ideas · Bull Pup Dope · Kinks · Freeboring · Latest Hornady Bullets · Free Jungle Knives · Trade Dope.

HOMEMADE .22 M. C. BULLETS

Before he got into the Navy, Lt. Ed. Lofberg made dies and punches for swaging .22 caliber bullets. He deheaded fired .22 rim-fire cases, for the jackets, in a special die which he made for his Belding & Mull reloading tool. This is shown in Figure 1 of the accompanying sketch, the swaging die and punch being shown, respectively, in Figures 2 and 3. In Figure 1, the flanged end probably fitted the cross slot of the cartridge holder or cradle of the B.&M. tool, and the deheading punch, not shown, carried the fired case, headfirst, into the enlarged hole at the opposite, or entrance, end of the die. The other, or outer, dimensions of the die were made to correspond with those of the .220 Swift case, for which Belding & Mull had made Lofberg's tool. The deheading punch was flat on the end, with rounded edges, and its diameter was .208 inch.

The other die, Figure 2, was probably used in a regular metal vise. The length and weight of bullet was controlled by using washers under the head of the swaging punch. The die is in two parts, one forming the bullet head and the other, its cylindrical body. The end of the punch, of course, determined the shape of the bullet base, and the swaging hole, its diameter. The small exit hole, or escape, at the tip of the bullet nose, was to permit the excrusion of lead, which came out in wire form and broke off cleanly and uniformly. The Lieutenant said 90% of his bullets varied only .3 grain in weight, while 75% of them varied no more than .2 grain, and 65% varied but .1 grain. This would indicate uniform swaging and excrusion. We have found that such small differences in weight have no appreciable effect on the grouping or accuracy. It is far more important to have uniform jackets and to fill them uniformly and well with their lead cores than to get weight and diameter uniform. These latter two proportions will automatically take care of themselves, within reasonable limits.

In order to get a uniform filling of the case, by the core, Lofberg melted his lead and dipped each case full. This not only excluded air pockets but gave him another uncounted advantage in the form of annealing which usually leads to more perfectly formed bases and to better upsettage of the bullet in the bore when fired. His first step was to anneal his fired .22 cases and to clean them, by boiling in soapy water. Then, after deheading them, he filed off all sharp corners left by the striker so that this indent would fill out during the final swaging. Then he washed the hulls again, in soap and water, and dipped each full of molten lead before reforming, or swaging. This left the bullets' diameter .225-.226 inch, and they were run through smaller dies subsequently, before shooting, for diameters of .223-.224 inch. Because this resizing squeezed out more of the lead core, Lofberg made a smaller swaging die to form bullets no larger than .223 inch, but not used up to this writing. The original swaging die excruded approximately 10 grains of lead through the tip of the bullet in the forming process. With his washer control, he made bullets in various weights ranging from 55 to 67 grains.

Lt. Lofberg uses nitrocellulose cement, or fingernail polish, for a sealing means in seating his primers and bullets. This has stopped all primer leakages and bolt-face scoring. In the .220 Swift caliber he leaves his case necks about .002 inch larger than the bullet, as his cement trick has obviated all neck sizing. He has been careful about the amount, and uses very little of the cement on each bullet. He has noticed no change in impact or in grouping since resorting to this practice, he says. No groups or loads were reported.

MAKING ACCURATE .22 BULLETS

Chapter Eighteen of Vickery's book on "Advanced Gunsmithing" ($4.00, NRA Book Dept.) is devoted, almost entirely, to the tools and methods of making jacketed bullets, particularly those made from fired .22 rim fire cases. The dope is there, and Fred Huntington used it for developing his R.C.B.S. equipment for the home manufacture of such bullets. Incidentally, Vickery is using Huntington's R.C.B.S. equipment for making his own bullets, which strikes me as being a fair swap. This R.C.B.S. equipment was described in the May Dope Bag, last month. In that story I dealt principally with the operation of this equipment, and gave my experiences and results with it while following the maker's directions and while employing it in connection with two (old and new) issues of the Pacific Reloader, for which these R.C.B.S. parts were designed. Now, I want to tell about a few refinements in technique; tricks I learned in striving to improve my bullets. Performance beats looks when it concerns bullets.

I soon gave up on all .22 cases other than those of copper or gilding metal. Steel cases gave bullets which spread all over the place; no accuracy with any load tried. When annealed they "froze" in the die unless yanked through with a single continuous stroke of the Pacific handle. Nickel-plated and brass bullets were hard on the bore, plating it at the high velocities we wanted. Even in a polished and specially hardened bore, impervious to filing, brass bullets left plating, in flakes, which stubbornly resisted removal and are still there. The poorest cases of gilding metal or copper are better than the best of the others. Brass is practical at lower velocities only, or up to 3000 f.s. Cadmium or chromium should be all right in any bore at any velocity, but we had no .22 cases available with such plating for trial. The very best jacket material is unheaded factory blanks of gilding metal, but these are relatively unobtainable. In fired .22 cases of gilding metal there is an appreciable difference between brands, and enough difference between lots and types of the same brand to recommend segregation. This discrepancy among equally clean cases of the same metal can be closed or modified by thorough annealing between drawing and swaging. Even so, some lots will make more accurate bullets than other lots handled in exactly the same way, throughout. I had one lot of Western Marksman cases marked with a series of grooves which appeared to be weak and unsuitable for bullet jackets. However, they proved to be the best of all after the shooting was over and the range results had been studied and compared. We may find some lots even better than these, but I doubt it.

I have tried many cleaning methods, from brushing and wiping individual cases to quantity boiling and chemical treatment. When a grimy lot of fired .22 cases is boiled in water and soda, or soap, the loose dirt comes free, but the greasy, grimy film continues to cling. Furthermore, it is almost impossible to dry the cases after boiling. The best method, after shaking out excess moisture in a sieve, sifter, or colander, is to dump them into a flat pan, spread them evenly and set them in your oven for thirty minutes at 500° F. This will dry them, give them a beneficial preliminary anneal, and loosen any remaining dirt on the inside or outside of individual cases. Deheading completes this dirt-cracking process, which can be followed by brushing inside and scrubbing outside should it seem necessary. Another practical method is to wipe or brush only the dirtiest cases and then anneal them, all at 600° F. At this heat, grime or grease is burned off and a black oxide is deposited on the cases. Deheading then cracks and loosens all foreign matter and brushing takes it off. This annealing also changes the bright copper color to a dull stain. Dipping the annealed cases in a weak acid solution restores the original bright appearance. Some makers rely upon the acid for the complete cleaning job, but some metal is inadvertently removed when the acid solution is strong enough or when the immersion is long enough to do a complete and thorough cleaning job.

After deheading, the real anneal must follow before swaging the copper jacket to its lead core. It is important to get a thorough anneal or the core will not fill the jacket solidly at every point of contact, as it must for accuracy. This has particular reference to the heavy head of the hull which becomes the base of the bullet, because here is where filling failures occur and this is the part of the bullet which must instantly seal the bore when fired. It cannot do so promptly and reliably when too hard. A temperature which will melt lead is required for a thorough annealing. The kitchen oven should be set at maximum heat when it has the usual top reading of 600° F. In about forty

minutes it will be about 650 or 700 degrees when so adjusted. If the cases are in a pan it should be agitated periodically to insure an even anneal of all the cases. For greater uniformity, another method is to set each case, inverted, on its own metal peg or pin of a prepared series. In flame annealing, the cases can be set upright in holes drilled into a metal block. This insures a thorough head anneal of each case, and the lead cores can be melted solidly in each case at the same time. It takes an hour or less to cool them for handling or swaging.

After annealing, the cases may be dipped in acid to restore brightness should pretty bullets be desired. For accuracy, however, it would be more profitable to apply this time towards insuring a good solid fill of the core in its jacket. This can be done by melting, as suggested above, or by preswaging. In this added operation a small punch thrust inside the case mouth forces the lead back into the case to swage it solidly into place at the base and along the sides. Lt. Lofberg accomplished the same thing by dipping his deheaded cases full of molten lead and then squeezing out excess core metal through a small vent in his swaging die. He said he also managed to get rid of the striker indent by filing and filling, but I have not been equally successful. It is modified by annealing and preswaging but the mark is always obviously there and always a drawback to fine accuracy. If the location of the base indent could be marked on each loaded cartridge and then placed in the rifle chamber so that this indent would invariably be adjacent to the same groove or to the same land of the barrel it would have no adverse effect on the accuracy. But such painstaking handling is impractical.

Since we have taken every possible precaution in the preparation of our jackets, all we can do now is cut our lead wire to uniform weight, by length, and swage each bullet uniformly. The R.C.B.S. core cutter works so well, on standard lead wire, that it is easy to get each core of the same weight. It should be held in a vise and the feed hole should fit loosely the wire used, according to its diameter; usually 3/16, or it may be as big as .196 inch. Then, when the wire is cut into foot lengths and rolled between two boards, it can be fed easily and uniformly through the fixed cutter. In swaging, I have found the flat-end punch to give the most reliable core fill and the most uniform base edge on my bullets. It is necessary to have this flat end fit the die snugly, which means close centering and minimum warpage or bent. By trying both positions, front and back, of the R.C.B.S. ram in the Pacific tool, I determine which of the two centers they punch most perfectly and then use that position. The punch is locked, against pulling out, by a small screw which I leave as loose as possible to promote self-centering of the punch in the mouth of the die. When the base of the punch fits its seat in the top of the ram too tightly, I grind and polish it down for a loose fit in the interests of alignment. I realized the importance of this when one user learned the hard way by snapping a hard-tempered punch in three places on his first trial.

The hookup of the handle and ram in the Pacific Reloader is a link arrangement, and a uniform swaging stroke is obtained by having it go over center at the finish. The die is so adjusted, in its seat, that the bullet is completely formed at this over-center finish. When the handle is brought up half way, to the horizontal position, the top part of the bullet die is unscrewed one turn to release trapped air and then retightened before completing the stroke, i.e., until it snaps over center. More perfect points are obtained if the die is vented again, by once more unscrewing the head and repeating the final part of the stroke. This second time it is held up there, purposely, for a few seconds in order to give the bullet metal time to flow. If the pressure is too great a properly annealed jacket will show fins at the edge of the base, and a pressure ring will form around the bullet at the joint where the two parts of the bullet die meet. This latter does no harm unless exaggerated or too prominent. It is removed by running the bullet through the bottom part of the die. There must be enough swaging pressure to indicate such a pressure ring, at least incipiently, but when the fins appear on the base the adjustment must be backed off slightly. Another method is to run all bullets just short of complete point-forming and then run them all over again with the maximum adjustment in order to finish the forming under pressure. With the flat-end punch, or base, I found the 6-caliber die, or point, made the most accurate bullets in about 55-grain weight, or length. Properly made hollow-base bullets of this weight were most accurate with 4-caliber heads. In making hollow-base bullets, for accuracy, I found it necessary to first make them with the flat-base punch. In using two dies we got the most accurate bullets when I made them in the smaller die first and then did the final swaging and sizing in the larger die. When reversing this process, or when sizing a jacketed bullet to some smaller diameter, the jacket is work-hardened and is caused to spring back and away from the inert lead core. It is then no longer an accurate bullet. It can be done with less damage by using a vent hole and letting the core excrude, but, even so, it should first be annealed at temperatures between 650 and 750 degrees F. This not only softens the jacket, but it melts the core and allows it to flow and fill the jacket solidly.

Out of curiosity, I tried lubricating the cases lightly, and found it did no harm if the lubricant was carefully kept out of the inside. The very best die-lubricant is soap. It is superior to graphite or grease. A thin film of wax is not bad, but I could detect little difference in the results. In order to get the thin coating fine enough to work properly, I used Anti Rust Oil, a wax-in-solvent, very sparingly, by dampening a cloth (not wet) and lightly wiping the cases during the final inspection after deheading. The volatile solvent leaves a minute wax film which does no harm in case sizing, case forming, case drawing (deheading), or jacket swaging. Soap is as good, or better, and easier to apply. For our purpose here, however, no such lubrication is required, and I doubt that it is even desirable for anything short of exceptional conditions.

So far, our check shooting has been done only with the original 55-grain weight of bullet, made on R.C.B.S. equipment, with a core cut to weigh 45 grains. In order to give an idea of the relative accuracy with this arbitrary weight, I will quote some of our preliminary results, although our real accuracy tests are yet to come. On one day our check was at 3000 f.s., and the known load with W-M bullets made 1.33 inches at 100 yards with four in 1.03 inches. The .224-inch hollow-base bullet made 1.75 inch with four in 1.03 inches. Made with the regular concave base and sized to .223 inch, it made 1.68 inch with four in 1.03 inches. In another rifle and at about 3750 f.s., the known load with Sisk bullets made 1.17 inches at 100 yards with four in .80 inch. The .225-inch bullet with regular base made 1.43 inches with four in .84 inch. With flat base the same .225-inch bullet made 1.40 inches with four in .90 inch. All above were five-shot groups fired at 100 yards.

In a third rifle, fired at 200 yards, no known loads were fired for comparison, but experimental loads with 8-S and Sisk bullets gave groups of 3.30, 3.60, and 3.31 inches, two of them having normal groups of 2.50 and 1.79 inches. The velocity level was estimated to be slightly above 3500 f.s. The .225-inch bullet, made flat base with 6-caliber point, made 3.41 inches with four in 2.25 inches. With the core melted in during final annealing, and identical otherwise, it made 1.96

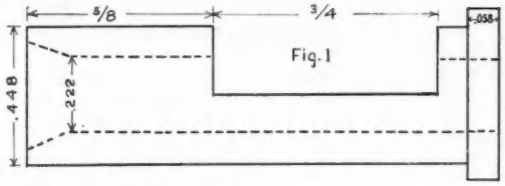


Fig. 1

Lt. Lofberg's Bullet Swage, Deheading Die, and Base Punch.

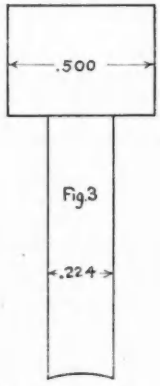


Fig. 3

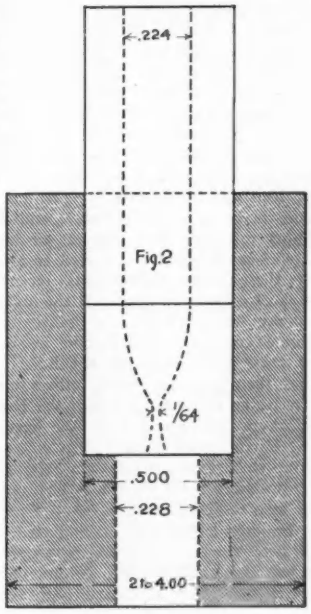


Fig. 2

inches with four in 1.45 inches. Made the same way, but with 4-caliber point, it made 4.12 inches with four in 3.18 inches. Some of these bullets, previously made flat base, were oven-annealed and reswaged to .225 inch with hollow base. These five made 3.38 inches with four in 2.23 inches. Another lot was reswaged the same way, but without annealing, and they made 4.37 inches. One lot was made directly in the .225-inch die with the flat-base punch. These made 4.75 inches with four in 3.08 inches. Another lot was made the same way in the .224-inch die and then reswaged in the .225-inch die with the hollow-base punch and 4-caliber head. These made 1.77-inch five-shot groups fired at 200 yards.

In view of the production methods and experiments in technique involved in making these first 55-grain R.C.B.S. bullets from fired rim-fire cases, I consider these early results very promising for the future. Perhaps the accuracy indicated is representative of proper production employment of this equipment, but I am looking to this equipment for a lot of accuracy rather than a lot of bullets. Primarily it is designed for personal home use by the shooter for himself and not for quantity production, although it could be so used if desired. The proper attitude, I think, is an interest in making good bullets instead of many bullets. By putting into practice the refinements I have already learned, as enumerated here, I am confident good bullets can be made on this R.C.B.S. equipment, and it is my ambition to do it and to prove it by subsequent shooting. Results will be reported later.

In the first test of our 52-grain R.C.B.S. bullets, those properly made performed well. In the 2R Lovell they gave slightly better groups at 100 yards than the 50-grain Hornady bullets and a custom load with the 45-grain 8-S bullet. In the .220-30 Bull Pup, however, they did not equal the Hornady group. At 200 yards, in the Lovell-Varminter they made a 5-shot group of 1.91 inches, whereas the Hornady group was 1.61 inches. Only two 5-shot groups were fired with our lightest weight of R.C.B.S bullets on the .22 Long Rifle case. This was 49 grains. In the Lovell Varminter at 200 yards these made 3.10 inches when of Kleanbore cases and 2.05 inches of Marksman cases. Both were made hollow base with 4-caliber head in the .225-inch die.

In the .22 Long Rifle case it takes a 45-grain core to make a 55-grain bullet, and 42 grains of lead for a 52-grain weight. A 39-grain core makes a 49-grain bullet, and in the .22 Short case this same amount of lead makes a 46.5-grain bullet. I started to swage some of these latter lightweights recently, using a short spire-point head. At the finish forming of my fifth gliding-metal bullet, the Pacific frame cracked. Ackley said he broke two of these tools with his R.C.B.S. equipment, and there must be many others unreported. The thing to do is to follow the Huntington-Wotkyns advice and brace the open hook of the Pacific frame with a strip of quarter-inch strap steel pinned to the ram guide below and screw-fastened to the die holder on top, out of way on the right side.

Important factors in making accurate bullets of fired rim-fire cases are, in order: cleaning cases (especially inside before core-filling), annealing to 650° F., and preswaging cores.

YOUR PUP MAY BITE YOU

If you are left-handed you probably do not use a Bull Pup. But if you use one conventionally, off the right shoulder, look out for any gas port in the left side of the receiver hood. Even without such a port, gas can escape, between bolt and hood. Jack Ashurst's friend, Taylor, found out about that while resting his cheek behind the hood of his M-1917 Pup. The photo shows what happened to his cheek when gas and brass particles struck it. Being a mechanical genius, Taylor soon had a shield of metal (curved, thin, spring steel) covering the action and serving as a cheek rest. Right in his hotel room, Taylor made another Bull Pup. This was a combination pistol and Pup based on the Hi-Standard Model B .22 caliber pistol, making it an autoloading Pup. It has an interchangeable Remington Automatic rifle barrel with a 29S Weaver scope, and it takes Taylor less than two minutes to change it from pistol to Pup or vice versa. The shield, referred to above, extends from the front edge of the receiver back to the bolt stop, and it is fastened by four screws to the left side of the receiver under the wood. It is rolled over the top of the action as far as single-loading permits.

Taylor's Pup Did It.

KINKS

G. H. Parmenter, of Beecher City, Illinois, adds to the long list already published in the Dope Bag on the subject, by suggesting a broken-off round file for removing broken cases from gun chambers. He grinds smooth all parts of the file except that which is designed to contact and grip the stuck shell. A thrust and a rotation of this extraction tool generally does the trick, he says.

Regarding the tight cylinder of the Smith & Wesson revolver, previously discussed in these columns, John S. Roth, of Wichita, Kansas, adds a thought. "I have found that, in several cases, only one of the screws on the side plate is short enough to clear the cylinder pivot. This could result in the binding of the sear, the stiffening of the action, and the binding noticed in getting the cylinder in and out of the frame."

John Murrow, of Biteley, Michigan, was faced with the problem of reloading the .50-70 Sharps. He made a decapper from a nail and a bullet mold from plaster-of-Paris, also a recapper. Holders were made by drilling case-size holes in steel blocks. Five factory cartridges were obtained after two months of search. They gave plenty of kick and penetration. One lead bullet weighed 658 grains and was driven by 95 grains of black powder through two 2-inch oak planks and four steel signs ¼-inch thick. The second mold approximated the 450-grain bullet in weight and shape. A .401 W.S.L. case was used as a measure, and both powder and primers were obtained from a cartridge collection by breaking down assorted samples. Even so, five-shot groups as small as 3 inches were obtained up to 80 yards, Murrow said.

All the safety features in the world cannot save careless and indifferent people, but the ignorant and the uninformed should have the protection of every possible mechanical safeguard. Every now and then some boy or untrained adult is caught by the cartridge which remains in the chamber of an autoloading pistol when the magazine has been withdrawn. A local boy was killed in direct consequence of this very thing this year, and I have heard of two other cases. Walter F. Roper tells me this feature can be easily and simply corrected on our .22 pistols and that he may go into production on it after the war, if demand should warrant.

ON FREEBORING

Relief boring ahead of the chamber, or freeboring, is an old practice, at least as old as this century. Currently, it is being used more extensively than ever, by experimenters and custom gunsmiths. Although old and sound in theory, it is still in a state of development. The idea of a smooth-bored, bullet-size channel from chamber to rifling is a good one in principle. It allows the bullet to leave the case in a straightforward motion, guided by fit but unhampered by the driving lands of the rifled portion some distance ahead. If this rifling is 2½ inches ahead of the chamber, the bullet has overcome its inertia and attained some little velocity and the peak pressures have been safely passed before it reaches the rifling and is made to turn or to begin its rotation. The snug fit of the freeboring insures a good gas seal, and the bullet can enter directly into it at the mouth of the case. If the bullet is thinly constructed or relatively soft the freeboring can be slightly subdiameter, as no harm is done in slightly swaging such bullets. All must fit snugly in this smooth portion.

No one is clear on this subject. Its advocates do not agree about its merits. Some say it gives better accuracy. Others claim it permits higher velocities at safe pressures. All say that heavier loads can be used without exceeding the pressures or pressure indications of the normal load in the normal rifle. Most shooters have accepted freeboring as a practical means of restoring the accuracy of a throat-eroded barrel. When the throat is eroded to a diameter greater than that of the bullet this cure is not as effective as it could

be with a tighter fit. It does not seem to work as well when the groove diameter is greater than the bullet diameter. In my own .30-'06 the groove was fully .002 inch larger than the .308-inch bullets, and no appreciable benefit resulted, except that the pressures seemed to be milder after freeboring.

Jack Ashurst has found freeboring to be a good cure for worn throats, and also to permit the safe use of increased charges in new barrels. In his .270 Magnum the top load is 74 grains No. 4350 behind the 140-grain bullet, but when freebored for some little distance the top load is four grains more of the same powder. Also, this 78-grain charge gives the best accuracy with the 140-grain bullet, or 1¼ inches at 100 yards. An extended flash hole is used in this same load which has been chronographed at 3648 f.s. near the muzzle. His .224-'06 made 4010 f.s. with 55-grain bullets, and I predicted it would make 4500 with lighter balls. Since then, the chronograph has shown 4592 f.s. with the Sisk 41-grain and 50 grains of No. 4320, and 4366 f.s. was registered by the 45-grain 8-S bullet when driven by 49 grains of the same powder.

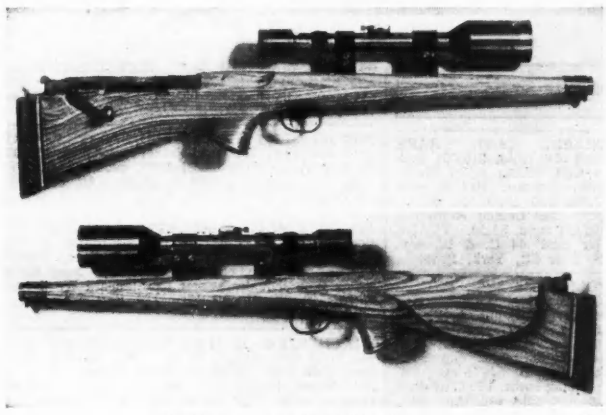
S.-H. PRODUCTION BULLETS

The .22-caliber, Speer-Hornady bullets, made by Speer in .224 inch from fired rim-fire cases, are sold by J. W. Hornady, of Grand Island, Nebraska. At first, these bullets were made for their own shooting and for their local friends. But the demand grew, and production methods became necessary. For a time, there was some trouble with hard cores and from mixing cases of brass and gilding metal indiscriminately. The brass-case bullets come out about .0005 inch larger and they do not give the same impact. The result was: groups reported as large as 6 inches at 100 yards, unless segregation was practiced and brought them back to normal spread. The hard cores brought back reports of failures to kill, on account of inadequate expansion in chucks, marmots, and sod poodles. These early troubles were soon overcome by using soft lead wire for the cores and by eliminating all brass cases except that occasional one which sneaks into the production line.

Greater trouble came from the excessive demand for these bullets. Advertising and publicity swamped Hornady with orders from all sections of the country, and Speer had to install faster methods of production. Mr. Hornady stopped advertising and asked me to stop all mention of Speer-Hornady bullets until further notice so that they could make new dies and machines and catch up on back orders. I have just received notice from Mr. Hornady that all is well again. They are now prepared to keep up with the demand. By middle April they had caught up on 40-, 45-, 50-grain weights, and by May they had done the same with the 55-grain weight. Their production rate is 100,000 bullets per month. The postpaid price to shooters is two-and-one-quarter pennies per bullet.

In Mr. Speer's shop, the fired cases are thoroughly washed, by machine, in a strong type solution. Then the copper or gliding metal cases are sorted out and annealed. They are then recleaned with acid to restore brightness and again washed to remove all traces of acid. After drying they are deheaded, and then corefilled by hand, during individual inspection. The final operation of swaging and smoothing is done on another multiple press. The presses are fed by hand. There are ten mechanical operations from start to finish. The bullets are held to a diameter of not over .224 inch and all have pointed lead tips and 4-caliber heads. The bases on our samples are flat with rounded edges. In the last 100 we received there were 10 Western, 5 Peters, a few Winchester, and the remainder Remington, all weighing 50 grains.

In the 2R Lovell these 50-grain Hornady bullets proved more accurate, on the same date, than a custom load with 45-grain 8-S bullets. They were loaded with 15.0 grains No. 4227 and with 16.7 grains No. 4198. In the Gebby-Varminter, in the same test, they were as accurate, with 36 grains of No. 4320, as the 50-grain 8-S bullets. In Barr's .220-30 Bull Pup they put 10 shots in 1.31 inches with a load of 28 grains No. 3031. All the above results were obtained, in May, at 100 yards. At 200 yards, in Barr's Lovell-Varminter Bull Pup, 5 shots were tried with 36 grains of No. 4320, and the 50-grain Hornady made 1.61 inches, center to center. J. Garfield Jenkins, of Sidney, N. Y., has had good results with this bullet in his Sedgley-Winchester 2R Lovell. He sent us a nice 5-shot group made at 100 yards with his load of 16½ grains No. 4198.



Mr. Thompson's .22 PMVF Bull Pup.

HUTCHINSON KNIVES

Joseph B. Wagner, of Bellefonte, Pa., has given us a complete outline about the origin of the combat-and-jungle knives which, we previously intimated, came to men in the Service from Rockview Penitentiary. D. M. Hutchinson, of State College, Pa., is a guard at the penitentiary, and a few of his blades have been tempered in its blacksmith shop. After losing a son in the war, Hutchinson set up a shop in his own home and made these knives for soldiers out of material donated by others or purchased by himself. The one I saw and sent on to the Pacific theater was a sturdy and formidable weapon made of a saw blade and sheathed in quality stiff leather. He has made and furnished our service men 400 of these knives, all free. The only requirement is a bona fide request from any of our boys in combat zones.

TRADE DOPE

Announcements. R. A. Litschert says he can handle no more orders of any kind for at least three months. However, he will gladly receive and answer mail, literature requests, etc. Arthur Lamoméaux, of Haddonfield, N. J., has a new mount and mounting service for Weaver scopes on the Model 70 Winchester. His steel mount holds the scope in low position, and it requires one rear hole in addition to those provided by the factory in the receiver. Write him first about delivery date. Hugh C. Reid, of Des Moines, Iowa, says he can handle more custom gunsmithing for varmint shooters. He sent a photo of a fine Bull Pup he had just made, on the Krag action, for the .22 Super Hi-Power (.25-35 case, etc.). We intend to show a cut of same before long. We have just received word from Vard, Inc., that Mr. R. W. Miller has severed his part-time connections with that firm and will devote all his time to gunsmithing at his old Topanga, Calif., address.

VARD-MILLER PMVF PUP

Ralph Waldo Miller, of Topanga, Calif., specialized in the Bull Pup design of rifle and featured dense desert mesquite wood in his custom stocks. He was joined by E. Baden Powell in the development of the Powell-Miller-Venturiied-Freebored chamber and cartridge design. Both are now part-time consultants with Vard, Inc., who are engaged in the same kind of rifle work. Harry Thompson, of Baltimore, Md., one of Miller's customers, finally had his rifle job completed by Vard, Inc., and was greatly pleased with everything except the scarcity of loads and components for same. Impressed by the beauty of its lines of mesquite grain and by the graceful lines of its form, Thompson had it photographed for the Dope Bag, and we are presenting it in this issue. Mr. Thompson offers it as a candidate for the title, "Most Beautiful Bull Pup," and it is not hard to see why.

It has a 22½-inch barrel of chrome-molybdenum-manganese, chambered for the .22 PMVF, on the .300 H. & H. Magnum belted case. It was range tested with 65 grains of No. 4320 powder behind a 48-grain bullet made of fired rim-fire cases. Although these thin-jacket bullets began to come apart, at the terrific velocity, and made jagged irregular holes in the 100-yard target, the group measured 1 by 2 inches. It has an Ajack, 7½-power scope, Miller mounted, and a Model 70 Winchester action. It weighs 10 pounds. A nice decoration for any gun room!

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising plus disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an *open* market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 10 cents per word, including name and address—minimum charge $1.50.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (examples: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (examples: W. H. Smith; H.B., meaning heavy barrel; H.P., meaning high power). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—exception: a phrase such as "write for catalog" or "details on request" may be used when listing quantities of similar merchandise or real estate.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun advertised for sale or trade *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT — meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning reasonable hard surface, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting; POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid", as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair prices paid" or "state price wanted" may be used.

9. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraphic replies.

10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express, C.O.D. with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including individual sales of ammunition (handloads and government calibers excepted). Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such license or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machine or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks*.

14. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing. Spell out all descriptive words; avoid abbreviations.

15. Closing Date: The closing date for all advertisements is the 5th of the month preceding month of issue. However, the *volume* of advertising we can publish monthly is limited and the quota is usually filled prior to the closing date. Ads will be accepted in the order received.

FOR SALE

SELL—.58 SPRINGFIELD, $8.00; RARE straight-grooved full-stocked .44, mold, $15.00; half-stocked .34, $12.00; .36 Colt, $9.00; 32-20 Marlin pump, 190 reloads, tools, empties, 200 primers, $40.00; Woodsman, $42.00; 150 1930 MI, $9.00; 44, .45 autos. $2.00; .25-20R Double Adjustable Chamber, $1.75; Ideal 308334 mold, $2.50. TRADE —1000 NMNC 1½W for good .44 C. & B. only. Elmer R. Boyer, 339 S. Pine St., York, Penna.

S&W MILITARY & POLICE .38 SPL., EXCELlent, 6½", holster, 100 cartridges $50.00. Colt Frontier .41, excellent in, very good out, 4½", holster, 350 cartridges $50.00. Colt .32 automatic, perfect, 2 clips, holster, 50 cartridges, $45.00. Hi-Standard H-B, 4½" perfect, holster, 2 clips, 150 cartridges, $56.50. Hi-Standard B, 6¾", excellent, Colt grips, belt, holster, cleaning outfit, 150 cartridges, $56.00. Savage 6A Automatic rifle, excellent, sling, Lyman #42S rear, case, 150 cartridges, $37.50. Earl Chapman, Atwater, Ohio.

WINCHESTER MODEL 12, 16 gauge, barrel 28" full, excellent $20.00. Charles Mitchell, 16860 Greenfield, Detroit, Michigan.

WINCHESTER 52 STANDARD EXCELLENT, $50.00. 32 Colt automatic, excellent, $30.00. Otto Britting, Huguenot, N. Y.

PERFECT .30-06 SEDGLEY SPORTER, BEAUTIful custom stock, Fecker scope blocks, 200 cartridges 1928 and later, $125.00. Solomon Levine, Columbus, Nebraska.

WINCHESTER 52 H.B., VERY ACCURATE, EXcellent, late model, no iron sights, $80.00. Geo. Stratton, 726 Grand Court, Topeka, Kansas.

HORNET SAVAGE 23D CUSTOM STOCK, cheekpiece, checkered, Q.D. swivels, scope rib, hardened, honed action, no sights, also factory stock, 600 bullets, 300 primers, B&M dies, cradle and seater, excellent, $75.00. Trade for 30S, .257 or .30-'06. Crosman .22 needs new valve, 1400 pellets, $15.00. Moulds B&M 359160, $4.00. Bond 358580, $4.50. Roy B. Miller, 3612 Rushland, Toledo, Ohio.

FOR SALE—YOUR GUNS, AMMUNITION, reels, rods and outboards bring spot cash, top cash. Or trade for merchandise in Free "Guaranteed Bargain Catalog" (send 25¢ refunded with first order) featuring thousands of guns, "hard-to-get, we-have-'em" items. Klein's Sporting Goods, 503TE South Halsted, Chicago 7.

357 S&W MAGNUM 4½", EXCELLENT, KING reflector front sight, 100 factory loads, money order, $135.00. D. G. Marshall, 39 North 20 St., East Orange, N. J.

FOR SALE—303 LEE ENFIELD, SPORTER, VERY good condition, 230 steel jacket cartridges, $50.00. 45 Reg. Army Colt, model 1909, good, $35.00. 70 Krag steel jackets cartridges, $5.00. All F. O. B. Harry Drake, Port Leyden, N. Y.

380 COLT AUTO, ABSOLUTELY FACTORY INside and out w/ two clips and 90 rounds of new Remington ammunition, also wool lined holster, $49.50. 45 auto clips, $1.00 each. New heavy spring type shoulder holster for Standard Woodsman, $5.75. T. W. Hoopes, Jr., 219 East Scarritt St., Springfield, Ill.

WINCHESTER .52 H.B., VAVER FRONT AND rear sight with sheeplined case. Excellent, $100.00. Remington O&U 12 gauge Model 32 trap grade, 30 inch barrel, F and Imp. Mod., excellent, $275.00. German Luger long barrel, very good, holster and 70 shells, $65.00. WILL TRADE 12 gauge heavy duck load #4C for same in #7C. First money order. C. W. McNeill, 724 E 4th., Pueblo, Colorado.

REMINGTON 241SA AUTOMATIC, EXCELLENT, 200, .22 shorts included, $30.00. Ray Gutz, 1305 Linden Avenue, Park Ridge, Illinois.

IF YOUR MAGAZINE IS LATE

Please bear with us if your copy of THE RIFLEMAN arrives later than you have been accustomed to receiving it. In normal times the magazine is mailed on a schedule providing for delivery during the first week of the month of issue. We still mail according to a plan designed to insure simultaneous deliveries throughout the United States; but the wartime strain on publishing, postal, and transportation facilities makes it impossible to guarantee normal-uniform deliveries. Only a return to normal conditions can remedy the situation. We beg your indulgence, therefore, and ask that you wait until the twentieth of the month before reporting non-receipt of the current issue.

MUST SELL—SEND 3¢ FOR LIST OF ODD LOTS, guns, ammunition, components, empty cases and primers. Ken Nelson, Bennington, Nebraska.

BULLET MOULDS ONE B&M 169 GK, $4.00. Bond double .25-20, .32-20, .44-40, each, $5.00. B&M 26 tool .30-'06, $7.00. Wm. Williamson, 94 St. James St., W. Hartford 6, Connecticut.

ONE DOUBLE BARREL 8 GAUGE SHOTGUN, good, $85.00. One single barrel 8 gauge fair, $35.00. 25 brass shells, 100 primers. One 11mm Mauser rifle, good, $30.00. 25 shells. Geo. Shuber, Geneva, Nebraska.

REMINGTON OVER & UNDER, SKEET, SOLID rib, 26" barrels, single-selective trigger, ejectors, recoil pad, excellent, $145.00. L. C. Smith, Ideal, Grade, 12 gauge, non-single trigger, single sighting, plain rib, 26" barrels, mod. and full, straight stock, ivory sights, ejectors, perfect, $125.00. 63 Winchester with 29S Weaver scope, 20" barrel, engraved receiver, carved stock, very good, $55.00. Match Target Woodsman, King sights, thumbrest grips, Heiser holster, perfect, $80.00. 38 Outdoorsman, thumbrest grips, Heiser holster, excellent, $75.00. B&L binocular, 6x30, center focusing, case, perfect, $85.00. B&L shooting glasses, perfect, $17.50. Ideal reloading tool No. 3, .38 Special, $6.50. Winchester .52 magazine, 5 shot, 10 shot, $1.50 each. WANT—2R Lovell, Wilson case, trimmer. 38 S 2R Lovell, Meepos reloading tool. Howard Close, 7 Stevenson St., Cortland, N. Y.

COLT .45 GOVERNMENT AUTOMATIC, ARCHED housing, perfect in, excellent plus out, $72.50. Absolutely perfect Woodsman, 6½", not highspeed, with 500 Palma, $70.00. WANT—Flash-hider for Japanese Nambu light machine gun. K. Peeler, 3440 South MacGregor, Houston, Texas.

FOR SALE—FIRST GUN BOOK OF ITS KIND just off the press! "The Gun Digest," new, complete, authoritative guide to modern American rifles, shotguns, handguns, accessories. Bulging with fascinating hunting, shooting techniques, secrets of the masters. Never before in gun history has so much valuable material been compiled in one volume to sell for only $1.00. Encyclopedic reference volumes of similar size usually sell for as much as $5.00. Giant size (11" x 8½"). 25 informative sections! 164 fact-filled pages! 629 brilliant illustrations! Easy-to-read, easy-to-understand! Order today. Quantity limited. Money back guarantee. Send $1.00 (plus 10¢ for postage, handling). Klein's Sporting Goods, 503E South Halsted, Chicago 7.

FOR SALE—BRAND NEW SPRINGFIELD AS issued, 30-06 caliber, assembled by Sedgley, $77.50. Warshal's First-Madison BB, Seattle 4, Washington.

FOR SALE—ENFIELD VARMINTER H.B. 26" high comb, scope bases, 50 cartridges, weight 13 lbs., excellent, $135.00. Mauser Varminter, 25", scope bases, high comb, checkered, 50 cartridges, excellent, $135.00. Winchester 70-28" Varminter, Ljutic stock, sling, scope bases, 50 cartridges, 13½ lbs., fancy, excellent, $175.00. Winchester 70, .30-'06, Weaver 330 B mounts, sling, rust spot on barrel, otherwise perfect, 60 cartridges, $175.00. Colt O.M.T. 22 hand honed, perfect, $75.00. Same, blue wear at muzzle, otherwise excellent, $70.00. Same H.B. 38 Special King sights, Roper grips, carved holster, excellent, $80.00. Woodsman 6½, excellent, $60.00. H&R Defender 4". .38 S&W, perfect, $35.00. H&R Sportsman 22 DA. perfect, $45.00. Same, S.A. holster, excellent, $45.00. H&R 25 auto very good, $15.00. Colt O.P. 38 Special 6", Audley, perfect, $65.00. S&W single shot, tip up, perfect, $35.00. Colt Detective Specials, very good, $35.00. Excellent, $40.00. Pearl grips, $45.00. Walther .25 auto, model 635, very good, $32.50. Sauer 32 auto, very good, $32.50. Mauser $30.00. 25 auto good, $15.00. Haenel .25 auto, pearl grips, excellent, $30.00. Luger 30 caliber 3¾ holster, Ideal dies, 100 cartridges, very good, $55.00. Colt .32 auto, ring in barrel otherwise good, $25.00. 38 Special 4" O.M.T. perfect, $60.00. Army Special 6", 38 Special, very good, $40.00. 45 A.C.P., very good issue, $50.00. 125, 12-gauge empty brass cases, $12.50. Herman Treptow, Milltown, N. J.

FOR SALE—NEW .38 SPECIAL SMITH & WESson Outdoorsman target revolver, special King ramp sights, 5-inch barrel, sheepskin bag, 100 shells, $125.00. Consider trade. Russell L. Wiley, Lawrence, Kansas.

FOR SALE—SNIDER ENFIELD .57 CALIBER breech loader, full length, unaltered, excellent, $20.00. Winchester cartridge display 196 cartridges, five missing, $25.00. Evans .44 Repeater, good, $25.00. Colt .32 automatic, good, $24.00. Hensoldt 2¾ power scope, perfect, $75.00. No telegrams. Harry McGinley, R. F. D. 4, Houlton, Maine.

FOR SALE—MANNLICHER-SCHOENAUER, CALiber 9.5 with hair trigger. This gun is in perfect condition inside and out and has only been fired 5 times. Price $140.00. Also, Remington Woodmaster, Model 81A, 35 caliber with checkered pistol grip and forearm with rubber shoulder pad. This gun is perfect inside and out. Price $100.00. Address: George Hermes, Room 625, 30 N. LaSalle St., Chicago.

ONE WOODMASTER MODEL 81B, SPECIAL grade, .300 caliber, ivory front, Lyman rear, Marble leaf center, fancy checkering in new condition, oil finish stock, and fore-end, 40 cartridges, $165.00. One Woodsman Target Model, 6½ barrel, in excellent condition, $55.00. One Savage Model 99EG, .300 caliber, shot 9 times, as new, 40 cartridges, $95.00. One Smith & Wesson .45 caliber, U. S. Army Model 1917 in new condition, 50 rounds and holster, $49.50. One .38 Special Police Positive, Pearl stock, shoulder holster and 50 rounds, good condition, $44.00. One Mauser automatic 32 caliber in new condition, holster and 50 rounds, $39.50. One Waffenfabrik Mauser automatic, 7.65 caliber, in good condition and 50 rounds, $36.00. One Smith & Wesson Special, .44 caliber, pearl handles, good condition, $48.00. One Colt Bisley Single Action Army, 6½" barrel, .32-20 caliber, in good condition, $40.00. One H&R .38 caliber revolver, automatic ejector, in good condition, blued, $12.00. One Model 86 Winchester .33 caliber, new barrel, 2/3 magazine, reblued and refinished like new, a real gun, $68.00. A. P. Satran, Fosston, Minnesota.

FOR SALE—L. C. SMITH FIELD GRADE, 12 gauge, 30 inch barrel, MF. Very good in and out. $50.00. Harry Ponder, Jr., Walnut Ridge, Arkansas.

FOR SALE—EXCELLENT MODEL 99 SAVAGE carbine. 250-3000 with about six boxes Silvertip, Peters, etc. Stith Mount and 440C scope, $135.00, with 29S $115.00. Forrest Weeks, Belle Fourche, S. D.

PRIMERS, 3000 WESTERN NMNC #1½ PISTOL primers @ $7.50 per M. .38 caliber full load, round nose, clean brass @ $40.00 per M. Money order only. George Fraener, 418 Benninghaus Road, Baltimore 12, Maryland.

THREE-BARREL GUN, 12-GAUGE DOUBLE above, 2¾" shell, full and modified, 2 7¾" Krupp nitro steel barrels. The .25-35 rifle is below. Weight only 7½ pounds. This gun was made by Christopher Funk, Suhl, Germany. Condition both in and out is excellent plus but perfect would not be an exaggeration. Stock and forearm of finest grained dark walnut with craftsmanship checkering. Profusely engraved in high relief, of wild life scenes, that only a master engraver could produce. All trim is German silver. Folding leaf rear sight, also auxiliary adjustable peepsight that folds flush into tang. Cross locking bolt. Side clips on breechblock. Set trigger for rifle. Three safety indicators and safety latch on left side. A wonderful handling gun and supremely accurate. If there was ever a masterpiece in workmanship here it is and it will be years before guns are again made like this. Included is a very fine and expensive double gun case of heavy oak leather. $475.00. O. N. Gregg, 4241 Troost Ave., Kansas City, Mo.

The Target for today!

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ARGUS Precision Optical Instruments were the eyes behind the guns that drove Rommel from Africa... and are still leading the attack on every Battlefront.

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DUPONT NOS. 3031, 4064, 4320, 4350, 4198, 4227. Hivel No. 2, 2400, Lightning, $1.60 lb. Nos. 4759, 6, Bullseye, Unique, DuPont MX and buik shotgun smokeless, $1.00 half-pound. Mail empty cans parcel post for all Hercules powders and send copy of Federal explosives license. Have chilled shot in all sizes and buckshot in .25", .28", .30", .32", .34", .36", .38" and .44", $1.00 per 5# bag. Sisk .22 caliber wartime bullets in 42 and 54 grain, $2.50 per 100. Winchester No. 209 shotgun primers, 75¢ per 100 or $6.75 for 1,000. Leslie M. Lindahl, Central City, Nebraska.

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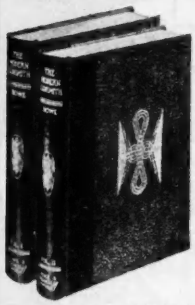

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GOOD SPRINGFIELD SERVICE RIFLE, "B" stock, $65.00. 500, .38 Special reloads, Resser-Bond bullet, $1.75 box. Few .45 ACP, FA and Commercial 5½¢ each. .30-30, .38S&W, .25-20W, .40-65W loading tools. Write for data and prices. Leroy Anderson, Bottineau, North Dakota.

LEICA MODEL G 35MM, SUMNAR F:2, EVERready case, Leica Valoy enlarger. Light meter, extras, $330.00. Karona 5 x 7 view camera, case, $25.00. R. Sheeler, 2421 W. Broadway, Council Bluffs, Iowa.

30-'06 CARTRIDGES, GOVERNMENT ISSUE, 6¢ each, perfect condition. Some 1938 N.M. 9¢ each. A. Howe, Linton, North Dakota.

HEAVY SCHUETZEN .22 SWISS HOLLAND AND Holland Martini rifle, perfect Johnson reliner, scope blocks, double set triggers, silver inlayed receiver, unexcelled accuracy, $65.00. .45 Colt Automatic, special finished pistol in perfect condition, with cartridges, $47.50. Fred Ernst, Washington, Missouri.

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38 SPECIAL COLT, OFFICIAL POLICE, 6", VERY good plus. Mexican holster, 200 fresh handloads, $60.00. R. A. Anderson, 710 E. 5th, Ellensburg, Washington. Life Member.

SELL—22 COLT AUTOMATIC, TARGET MODEL, bead sights, light barrel, extra magazine, perfect, $60.00. .22 Colt Official Police, 6" barrel, perfect, $60.00, neither never fired. Factory boxes, targets. neither adapted high speed ammunition. .22 Stevens #35 SS pistol, 8" barrel, excellent, not adapted high speed ammunition, $20.00. .380 Colt Automatic, perfect in, good out, no magazine disconnector, extra magazine, 45 cartridges, $35.00. Aubrey 16-30" single barrel, hammer shotgun, choke bore, perfect, $22.50. Russian rifle, as issued, never fired, 120 rounds, 1918, some cracked necks, $30.00. F:3.5 Glunz Camera, 9x12 cm., 1/200 to 1 second, Compur, extras, details on request, $85.00. Stamp please, for reply. Make no remittance until requested. H. Dohrman, 534 East Southern Avenue, Covington, Kentucky.

FOR SALE—FAIRBANKS ASSAY SCALE #354 weighs up to 250 grains by 1/10 of a grain, $17.50 money order please. J. E. Etherton, 2917 N. Washtenaw Avenue, Chicago 18, Illinois.

OREGON MYRTLEWOOD GUNSTOCK BLANKS. "The Most Beautiful Wood That Grows." Prices $3.00 to $10.00. Catalogue upon request. Beaumont's, The House of Myrtlewood, Marshfield, Oregon. 9-44

FIGURED WALNUT RIFLE BLANKS FROM $3.50. Specials from $10.00. Every blank guaranteed, delivered free, horn tips, 50¢. Mitchell Bosly & Co., Ltd., Little Shadwell Street, Birmingham, England. 7-46

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LARGE STOCK OF AMERICAN & EUROPEAN Arms. Send twenty-five cents for our eleventh catalog featuring three New England collections which have just come in. We buy whole collections or single pieces, fair prices paid. Kimball Arms Company, Woburn, Mass. tf

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COMMANDO KNIVES—8" RAZOR SHARP, DOUble edge blade of finest steel, knurled metal handle ball pummel, $12.00. 8" double edge knuckle duster, walnut grip, $12.00. Sheath and thong furnished. Louis P. Loutrel, 95-16 105th St., Ozone Park 16, N. Y. tf

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REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics. Catalogue 5¢. Cow Boy Lemly, Las Cruces, New Mexico. tf

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PREHISTORIC STONE TOMAHAWK, 75¢ 100 good prehistoric arrowheads, $3.00. 10 tiny perfect bird arrows, $1.00. Spearhead 25¢. List free. Caddo Trading Post, Glenwood, Arkansas. tf

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INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals. Illustrated catalogue 5¢. 100 ancient arrowheads, $3.00. H. Daniel, Hot Springs, Arkansas. tf

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TACKHOLE DOT, THE FLOATING CENTER round dot reticules installed in your target scope, $6.00, Weaver 330 or 440, $6.00. Write for price on other model hunting scopes. Endorsed by shooters everywhere. 100% accurate, fast, guaranteed. Send stamp for illustrated folders. Prompt service. Weaver .330 or .440 scopes for sale. T. K. Lee, Birmingham, Ala. 6-44

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BARREL BLANKS FOR SALE, 22 HORNET, Swift, 257, 25 Magnum, and .30-'06. 1-3/16" by 26", $15.00. Chrome Moly, $17.50. J. R. Buhmiller, Eureka, Montana. 6-44

DUPONT #4064, 4320, 4350, 4227, $1.60. #6 pistol, S.R. 4759 and Bulk shotgun 8 oz. $1.00. Hercules, #2400 and Hivel #2, $1.55. Unique and Bullseye 14 oz. $1.60. Red Dot shotgun pound, $1.85. Shot 5#, $1.00, also wads all gauges, Winchester #209 shotgun primers. Arthur E. Anderson, Fullerton, N. Dakota.

SELL—WALTHAM 18 CARAT GOLD WATCH with precision Swiss split second attachment, fair condition, $60.00. Pedometer, excellent condition, foreign make, indicates accurately travelled paces, $10.00. Film Pack Camera, 9 x 12 cm, compur shutter, Omnar anastigmatic F:5.5, F-13 cm, foreign make, $40.00, fair condition. Charles Swoboda, Bessemer, Michigan.

TRAP GRADE WINCHESTER, LATEST MODEL 12-12, excellent in, very good out, 28" full, matted rib, standard drop, pistol grip, beavertail, Hawkins pad, $95.00. Heaton, Box 654, Grand Island, Nebraska.

FOR SALE—CATALOG JUST OBTAINED A COLlection of 2000 Modern and Antique handguns, send coin 25¢ for your copy. Springfield Army rifle slings 1¼" used, fine condition, can furnish any quantity, 75¢ each. Webbing slings 1¼" wide, used, good condition, 45¢ each. Whelan oiled rifle slings 1" brand new, $1.50. Whelan rifle slings straps 1¼" brand new, $1.65, swivels 75¢ per pair, Springfield sight gauges, $1.00. Brass clips for .30-'06 cartridges, $1.25 per hundred. U. S. Army Military Haversacks, fine condition, 60¢. Colt Boot Hooks for riding boots, 60¢ per pair. 45 aut. pistol holsters, brand new, leather, $3.00 each. Hunting knife Parkerized, 5" blade, bakolite hard rubber handle, U.S.N., $4.95, brand new. Combat knife, 8" blade leather handle, brand new, $8.50 each. Brown leather Army Officers' Garrison belts, new, all sizes, $1.65 each. Black leather Sam Brown belts for Officers and Guards, new, all sizes, $5.95 each. All goods shipped express charges, collect. Public Sport Shops, Dept., R-72, 13 S. 16th St., Phila., Penna.

FOR SALE—SHOTGUNS WITH 75 SHELLS. Remington automatic $50.00. Marlin pump, $25.00. Stevens double, $25.00. Belgium doubles 10 and 12 gauge, $20.00. Single, $15.00. Rifles with 2 boxes of shells. Savage .30-30-219, $35.00. Winchester .30-30-94, $35.00. Marlin .38-55, $25.00. Winchester .38-40, $20.00. Krag as issue, $35.00. .22 caliber single shot, $5.00. Colt Frontier .38-40, $25.00. Official Police .22, $65.00. New Service .45, $55.00. Smith & Wesson .44 Russian, $25.00. Many other lists, 10¢. Geo. Brullesauer, 3957 aCastleman, 10, St. Louis, Mo.

FOR SALE—ATTENTION GUNSMITHS, PROFESsional & amateur "home" write for information about the best metal conditioning polish for preparing a gun for bluing—takes hours off the work—produces a mirror polish with unbelievable ease—unrationed—a little goes a long way. A polishing dream come true—No mess—No glue—no abrasive to spill around the shop. Leaves a polish as it takes the metal off. Does away with hand work. Sportsmans, Gunsmiths, Distributor for "Houghto-Blue" Bluing solution. Bob Brownell, Montezuma, Iowa.

FOR SALE—COLT HEAVY BARREL MATCH Woodsman, excellent, $65.00. Colt .380 magazine only with Heiser leather case, $3.50. Zeiss 18 x 50 Prismatic spotting scope, $65.00. Standard Winchester 70 barrel .270 WCF, perfect, $17.00. Standard Winchester 70 stock complete, cut for Lyman, $15.00. Remington-Hepburn, double set trigger, nickel steel barrel .25-20 S.S., scope blocks only, very good, $25.00. Ballard, Niedner .22 target barrel, Circassian stock, perfect, $175.00. R. C. Langguth, Life Member, 207 Michigan Avenue, Dowagiac, Michigan.

FOR SALE—WINCHESTER M71, .348 PERFECT, new, sling, recoil pad, open sights, 67 Western silvertips, $100.00. Winchester M21, perfect, new, 12-gauge, automatic ejectors, 30" barrels, full and modified, leather case, 15 boxes Super X shells, $155.00. C. P. Goerz, Berlin, Trieder binoculars, 9X, central width and focusing adjustments, individual eye piece adjustment. Flint optical glass prisms and lenses, just cleaned and checked by specialists. Perfect optically. Finish on aluminum frame is case-worn. New leather case and straps. $125.00. S&W, M&P, .38 Special, 4" barrel. Factory over-hauled and reblued, perfect. 5 boxes Westerns, $65.00. Money orders only. Elmer Ashelby, 8041 Dorchester Avenue, Chicago 19, Illinois.

38 SUPER, VERY GOOD OUT, EXCELLENT IN. extra magazines, 159 non-corrosive, $75.00, 1911. 45 Commercial, straight, good out, perfect inside, extra magazines, 150 non-corrosive, 150 older, $60.00. 25 Colt, .32 Savage, $22.50 and $27.50. Winchester 61 Standard, excellent, $50.00. 4, 5A Reticules, $6.00. Lyman comb. Windgauge hooded front, $4.00. 38 automatic cartridges, 250 for $10.00. Rifleman through 1940, $2.50 year. Geographics, 1913-1941, $2.00 year. Walther .22 auto rifle, excellent, extras, $110.00. National Graflex II, excellent, extras, $110.00. Write before remitting. No trades. Stamp for reply. Norman M. Hill, Box 27, Jacksonville, Florida.

FOR SALE—WINCHESTER 75 TARGET, FACTORY sights, appearance good or better, otherwise perfect, 1000 leader cartridges, $57.50. Winchester 52 Speedlock, not latest model, Eric Johnson Barrel, 28x15/16 x 1-1/16, appearance good or better, otherwise perfect, (bore perfect), custom cheekpiece stock, no sights, or sling swivels, with 500 EZXS or Mark II match, $70.00, (will sell without ammunition). Winchester Musket, 22 short, appearance v.g. or better, otherwise excellent, 500 shorts, Lyman receiver sight, sling, $32.50. Robert Haelig, Boundbrook, N. J.

RIFLE AND GUNSTOCK BLANKS IN FOLLOWing woods, American Walnut cut from crotch and stump figure. Circassian Walnut, Extra fancy Oregon Myrtle, beautiful figure and Birds Eye Maple. Wholesaler, with sawmill supervision insuring right grain in grip. Cheapest prices obtainable. Special inletting service to gunsmiths. D. W. Thomas, P.O. Box 184, Vineland, N. J.

LARGE STOCK OF AMERICAN & EUROPEAN Arms. Send twenty-five cents for our Eleventh Catalog featuring three New England collections which have just come in. We buy whole collections or single pieces, fair prices paid. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—CATALOG JUST OBTAINED A COLlection of 2000 Modern and Antique handguns, send coin 25¢ for your copy. Colt Officers' Target Model revolvers, .38 caliber, 6" heavy barrel, perfect, $85.00. Colt Officers' Model revolver .32 caliber, heavy barrel, target sights, like new, $75.00. All goods shipped express charges collect. Public Sports Shop, R-72, 13 S. 16th St., Philadelphia, Penna.

LUGER 9MM. 8", ADJ. REAR, ACCESSORIES and holster, 85 factory rounds, excellent, $85.00. Frank Murdock, 419 Del. Ave., Towson 4, Maryland.

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70. 220 SWIFT SUPER GRADE, EXCELLENT TO perfect, very accurate barrel, scope bases, special safety, 90 cartridges, 28 cases, 100 primers, complete, $100.00. Marion Houston, 245 West Bluff, Marseilles, Illinois.

REMINGTON AUTOMATIC 11A FIVE SHOT, 28" full, perfect, 20-gauge, case. Half box shells shot through it. $85.00. Browning automatic American, grade 1, 20-gauge, five shot 28" full, matted sight plane, non glare receiver, magazine cutoff case, like new except slight dent on forearm. Part box shells shot through. $85.00. Albert Osvald, 4175 W. Washington, Los Angeles 16, California.

RARE GUNS, MUZZLE LOADERS, FIRE PISTols, jeweled pieces, gold and silver inlayed, full-stock Kentuckies. Send self-addressed stamped envelope for list (HOSSTHIEF GAYZETTE). Guns that belonged to Annie Oakley, George Washington, Andrew Jackson, Buffalo Bill, Lafayette, Gen. Burnside, Admiral Dewey, Oriental Potentates. Some of the finest and rarest. Miller Bedford, New London, Ohio.

PERCUSSION AND MUSKET CAPS, 1¢ EACH. Paul Ratliff, Hillyard, Washington.

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1, 12-GAUGE WINCHESTER MODEL 12, MODIfied, very good, with 2 boxes of shells, $62.50. Manning's Store, Columbia Pa.

FOR SALE—SPRINGFIELD STRIPPED REceivers, heat treated, $9.00 each as issued, $7.50 each. Complete bolts, $9.20, trigger guards, $3.60, followers $1.00, extractors $1.50, ejectors 50¢, floor plates, $1.25, magazine springs 75¢, cocking pieces 75¢. .45 Automatic parts, link, link pin 25¢ each, extractor 85¢, firing pin 35¢, firing pin spring 25¢, hammer $1.50, sear $1.00, stock screws 25¢ each. No order less than $1.00, please. All prices f.o.b. Phila. E. S. Burrell, 717 Wyndmoor, Phila. 18, Penna.

NOTICE—THE BOOK "KENTUCKY RIFLE" BY Dillin, will be reissued. No orders received until further notice. J. G. Dillin, Media, Penna.

REMINGTON SPORTSMAN 20-GAUGE SKEET grade ventilated rib, Poly Choke, excellent, $125.00. F. B. McGough, Box 25, Winslow, Arizona.

MAUSER 88 CARBINE, GOOD, $34.00, PERfect. Schmidt Rubin model 1921, $32.00, 8mm, Austrian rifle, good, $20.00. Percussion double, $7.00. Cartridges. Ernest Rick, Kitsap, Washington.

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Mounted in our shop and range tested to your specifications. Target showing range results returned with the rifle.

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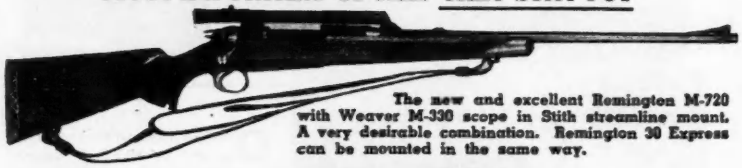

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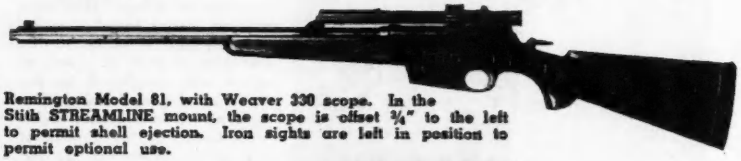
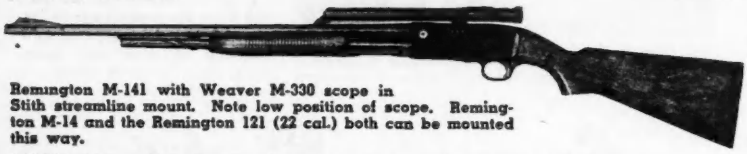


Remington Model 81, with Weaver 330 scope. In the Stith STREAMLINE mount, the scope is offset ¾" to the left to permit shell ejection. Iron sights are left in position to permit optional use.



Remington M-141 with Weaver M-330 scope in Stith streamline mount. Note low position of scope. Remington M-14 and the Remington 121 (22 cal.) both can be mounted this way.

NOTE: These Remington rifles do not have the spacing of the rear sight slots and receiver sight holes which permits the use of Install-It-Yourself models. Therefore these rifles must be drilled and tapped for installation of STREAMLINE MOUNTS, which are sold only for precision fitting here in our shop.

PRICES—**The Stith Mount for Weaver scopes only costs $16.50 installed, with Weaver 330 Scope $46.20, with Weaver 440 Scope $51.70. For Lee Dots add $6.00 extra.**

Same type of mounts for Lyman Alaskan $20.00 installed.

We can supply Weaver 330 Scopes at list prices . . . . we also have them in stock with Lee Dots.

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WINCHESTER 54 HORNET, FECKER 4X CLICK mounts. Excellent. 100 cartridges, $125.00. Without scope, $80.00. Edward Knapp, 151 Farmington Avenue, Hartford, Connecticut.

THREE-BARREL 12 X 12 X 7MM, REUCHLIN electro steel, barrels 22". Outside very good, inside excellent, finest engraving, set trigger for rifle. Indicator pins, stock has place for 4 rifle cartridges, auxiliary barrel, caliber 22. 160 rifle, 200 shot shells, 170, 22's, $365.00. Winchester 54 caliber .270, excellent in and out, Lyman 48 WJS, recoil pad, gun sling, 146 shells, $110.00. Double hammer gun 12, barrels 30", good, $14.00. Arnold Heinrich, 2 W. 88th St., New York City.

BROWNING AUTOMATIC (BELGIUM) 30" Full, raised rib barrel, 12-gauge, excellent, with two boxes Super X, $115.00. Lloyd Ewald, Rochelle, Illinois.

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38 O. M. COLT HEAVY BARREL 6 INCH, shortaction, Bisley hammer, bakelite grips and thumbrest, excellent to perfect, $75.00. Larry Tromley, 314 No. Alabama, Butte, Montana

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PERFECT REMINGTON M-37 RANGEMASTER, with miracle trigger, standard equipment and 1000 22 L.R. cartridges, $92.00. Nearly perfect Winchester M-70 Hornet, Stith mount, #344 Weaver scope, $110.00, some ammunition and components, extra. Excellent Hensoldt 6 x 42 Jagt-Dialyt binoculars, standard, $115.00. WANTED—7mm Ideal reloading tool, stamp appreciated. J. Stiem, 3701 Euclid Avenue, Berwyn, Illinois.

PAIR 10 X 50 CARL ZEISS BINOCULARS WITH case, Dekar, perfect condition, $200.00. 6 X 30, Goerz Berlin, Helinox, $60.00. J. Sutton, 10861 Fairbanks Way, Culver City, California.

COLT .45 AUTOMATIC ARMY, VERY GOOD, $60.00. S&W .45 revolver, factory perfect, 5½ inch barrel, $60.00. R. L. Beal, 8022 S.E. 51st Avenue, Portland, Oregon.

MODEL 70, 22 VARMINTER PERFECT, WITH cartridges, cases, bullets, primers, powder and Pacific dies, $200.00. Louis Bairo, 711 Professional Bldg., Phoenix, Arizona.

ONE 94 WINCHESTER .30-30, GOOD, WITH 28 cartridges, $30.00. One .38 Special Spanish DA Frontier Model, 5 inch barrel, good and 40 cartridges, $17.50. Garland Winn, Macon, Missouri.

FOR SALE—CURLY MAPLE, CHERRY AND walnut stock blanks. L. G. Stockberger, Garrettsville, Ohio,

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FOR SALE—ZEISS 8X50, TELAREM, PERFECT with case, $200.00. Zeiss 8x40 monocular, new with case, $40.00. Springfield N.M., high number, 48 rear, 300 rounds, 18 ammunition, $60.00. Garand type automatic .22 rifle, $30.00. S&W .22 on .45 frame bushed to 22. Good in, out. Ramp front, Magnum grips, holster, $40.00. 2,000 rounds .22 L. R. Jack Haley, Huron, Ohio.

SALE—100 BOXES .30-'06 AMMUNITION, $1.50 per box. 40 boxes Krag, $1.75 per box. 16-gauge reloading set with 500 primers, $12.00. Ideal #4 tool .40, 82 with mould, $5.00. Ideal .40, .82 full length sizing die, $3.00. Fine 12-gauge crimper B.G.I., $3.00. Ideal #10, 351 Winchester self loading tool, $5.00. Ideal full length sizing die .32 Winchester self loading, $3.00. Ideal #3, .30-30 tool, $8.00. James Farr, 20 Vandevanter, Princeton, New Jersey.

SALE—MONEY ORDERS: .32-20 S&W, M&P, good, $38.00. 45-70 Springfield, fair, $8.00. 22 Stevens Tip-up, 12 inch barrel, perfect, $19.00. 303 Ross, handmade Sporter stock, reblue, good, $37.00. 38 Special S&W, M&P, very good to excellent, $48.00. Banker's .22 Colt, perfect, $48.00. 22 Savage 19 NRA, scope, excellent, $55.00. Mounted deerhead, good, an old one, f.o.b., $18.00. WANT—Colt S.A., barrel immaterial, or what? D. W. Raymond, Wauseon, Ohio.

FOR SALE—80, 172 GRAIN B.T. 1938 ISSUE .30-'06 cartridges. 249, 154 grain flatnose G.C. handloads, 1250 F.S. with #4759, 17 clips, lot, $28.80. Ramon Ronquete, 512 N. Solomon St., New Orleans, 19, Louisiana.

LUXOR SPINNING-REEL WITH 7 FT. SPINning rod, excellent, 50 yards Ashaway special nylon line, new, 5 lb. test, all $26.50. Glenn Avery, 810-9th Avenue, Brookings, S. D.

FOR SALE—REMINGTON MODEL 30 EXPRESS .30-'06 like new with Weaver 330-S, B Mount (new), 160 cartridges, 4 boxes factory soft, hollow point, $150.00 money order. A. J. Lewis, 308 S. Maxey St., Sherman, Texas.

LATEST SAVAGE 19 NRA MATCH .22, EXtension rear aperture, hooded front, beavertail, sling, 100 HSHP. Factory condition, $56.40. W. Hunt, 600 First National Bldg., Minneapolis, Minnesota.

THIS WAR, ITALIAN 6.5MM CARBINE, VERY good, $35.00. Lyman 438, no mounts, $15.00. Stevens 6-power, no mounts, $17.00. Lloyd Pearson, 6318 Washington Blvd., Indianapolis, Indiana.

LOGAN METAL CUTTING TOOL ROOM BENCH lathe, 10"x43½", complete with centers, tool post, large and small face plates, steady rest, follower rest, thread cutting dial, thread-cutting chart, change gears, belts, jack shafts and control switch. A precision machine with V-way bed, 13/16 hole through spindle, power cross and longitude feeds. New in factory crate, $275.00. F.O.B. Will ship C.O.D. subject to examination on deposit to guarantee express. W. D. Willis, Attica, Indiana.

ENGRAVED WESLEY RICHARDS, DEELEY patents, single shot rifle action, cheekrest, pistol grip stock, automatic ejector, fine, $65.00. Engraved English made single-shot rifle, about .45 caliber, heavy ribbed barrel, one piece pistol grip stock, checkered, fine, $65.00. Heddon Pal, Deluxe casting rods #3151, 5' extra light, same 4½' light with cases, new, $25.00 each. A. G. Parker .32-40 and .22 caliber target grade tubes 31" long for relining barrels, new, $15.00 each. William Willis, Attica, Indiana.

PERFECT .300 SAVAGE R., OIL FINISHED, checkered grip and forearm, Lyman rear, 60 shells, $100.00. Perfect Browning automatic, 12, 30", F., special grade, matted hollow rib, adaptor, 60 shells, $135.00. Possible trade in considered. 30-40 1895, C. B. MacIntyre, Hoffmans, Schenectady County, New York.

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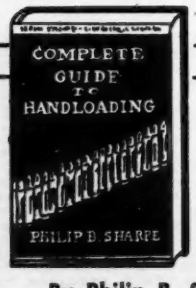

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FOR SALE—EXCELLENT SPRINGFIELD CUStom sporter, star gauged, P.G. cheekpiece, ramp front, Pacific Mic. rear, $95.00. Ex. grade A Fox 16 ga., 28" mod. full, 6¾ lbs., 1-9/16x2⅝x14⅛, $80.00. 1911 mod. Remington Automatic perfect except war finish, carved holster, .45 caliber, $55.00. Ex. 6" O.M. .38 Colt adjustable sights, bead front, 3"x36" belt & carved holster, $70.00. .45 A.C.P. cal. Colt Revolver, black sand blast back & top, 5½", blue, ex., $42.00. All c.o.d. with examination allowed. E. S. Cornell, Charlestown, N. H.

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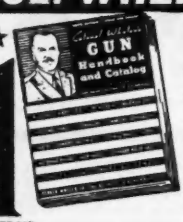

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SALE OR TRADE—.348 WINCHESTER, SOME ammunition, $95.00. Want Springfield M2 receiver and .28-30 rifles. Richard Etter, Wright St., Covington, Ohio.

SALE OR TRADE—SMITH & WESSON "TRIPLE-Lock", 5 inch barrel. 44 caliber; handhoned action, Pachmayr adapter. Magna stock, inside, tiny pits, but accuracy excellent. Outside beautifully reblued. Left hand holster, $133.00 *or* will trade for Walther "Double-Action" Automatic, if perfect inside and out. Must be .22 or other small caliber, plus ammunition to the value of my revolver. Good Remington portable typewriter completely rebuilt. Original finish unmarred. Write: A. C. Robertson, Hq 88th Sub-Depot, Pope Field, Ft. Bragg, No. Car.

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SALE OR TRADE—16VHE F&M BEAVERTAIL, pad, slight dent left barrel otherwise good to excellent, others. $125.00. Want Model 90 Marlin 410, 20 or 16 ga. L. C. Hitch, c/o Aluminum Co., Alcoa, Tenn.

SALE OR TRADE—TRADE PREFERRED EXcellent .38 Colt Official Police Revolver, 4" barrel, $40.00. Wanted, Colt Woodsman Match Target, please state condition. K. Meacham, W. Warren, Mass.

SALE OR TRADE—REMINGTON RUSSIAN AS issued 7.62 caliber, 40 shells, perfect, $28.00. 30-40 Krag, very good in, good out, $25.00. 32 Remington Automatic model 8, 4 boxes shells, Lyman peep, excellent to perfect, $80.00. 94 Winchester 32 Special, 26" barrel. 1 box shells, good in, good out, $35.00. One pair (pull over shoes) hip boots, size 11, perfect. $12.50. Wanted Winchester model 12, heavy duck gun. U. L. Ferrasci, Box 67, Cambria, California.

SALE OR TRADE—MODEL 12 WINCHESTER TRAP, 28" full, ventilated rib, 14x1⅛x1⅞, excellent $80.00. Ithaca No. 5, single, 34" full, excellent, $135.00. Latest Colt 38 Officers' Model target 10 ring grips, also original grips, new condition, except skeletonized hammer by King, $75.00. Want—Winchester 70 Hornet, very good or better. Lester I. Smith, Culver, Indiana.

SALE OR TRADE—SAVAGE 99EG, 250-3000, Redfield 102L, two boxes shells, very good, $60.00. Remington Standard Model 11, 12 gauge, very good, two boxes shells, $80.00. 2000 fifty foot official targets. Want 32 S&W shorts. M. H. Miller, Wellington, Kansas.

FOR SALE—COLT OFFICERS' MODEL .38, EXcellent, $60.00. Two S&W K22, excellent, $50.00 each. Remington Model 11, 12-gauge, 28 modified, excellent, $50.00. WANT—Targetspot. Delbert Wells, Salem, Indiana.

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SALE OR TRADE—6 YEAR OLD WALKER FOX-hound, slow running, fast barker, beautiful bell voice, great starter, one of the best, not deer proof, $50.00. Want—20 ga. double, Smith or Parker excellent. Marvin Carley, Brattleboro, Vermont.

SALE OR TRADE—.22 NIEDNER MAGNUM, Winchester Hi-Wall, double set, 30" Niedner barrel, high comb, very good, Litschert 6X type C scope, dehorned mounts, perfect, 40 cases, bullet seater, 300, 55 gr. bullets, $110.00. 30-40 Winchester Hi-Wall, single set, 26" #3 barrel, Winchester A-5 scope, very good, 40 cases, $60.00. Elwood 5"x7" enlarger, Beck F:8 lens, very good, $25.00. 6", 32-20 barrel for S&W Military & Police target revolver, very good, $5.00. Heiser flap holster for 6" Military & Police revolver, cartridge belt, very good, $3.00. Want—Excellent Officers' Model 22. Winchester heavy, double set, action. H. C. Hughes, Coalinga, California.

SALE OR TRADE—SHOOTERS CASE, 3 PISTOLS, side opens B&L or Argus, lock, slightly used, $25.00. 30-06 Springfield, 22" barrel, good in and out, $8.50. 30-06, 24" good in and out, $10.00. Spotting scope, three section, leather case & strap, fine glass, $37.50. Winchester 70 Super stock, cracked & repaired, $12.00. Remington 12 ga. model 29 pump, $67.50. Stevens (Ranger) 12 ga. pump, excellent in good out, $50.00. Springfield action #600,000 very good, trade same 6.5mm. Mannlicher-Schoenauer with Sporter half stock & ammunition pay cash difference. 30-06 Sporter, new Winchester barrel, Enfield action, Lyman Alaskan All-Weather scope, rubber butt, sling, cheek-piece, $150.00 or trade same Winchester 70-270 Sta. or Super. Remington 44-40 WCF pump excellent in and out, $50.00. French Lebel 8mm. Sporter, 23" barrel, sling, fine in and out, 2 boxes, $45.00. French Lebel 8mm. original new never fired, model 1915, bayonet, case, $50.00. 2 boxes Egyptian 11mm. 43 caliber, original, very good in and out, 1 box, $35.00. 100 Super X 30-30, 200-35 Winchester, 250 gr. 100-9mm. Mauser, 1 box 32 Remington Ex, 10 boxes 32 short S&W, trade only 22 ammunition Hornet ceiling basis or B&L or Argus scope. Trade or buy cash Winchester 70-7mm. Standard or Super. Prompt replies, C.O.D. or money orders. H. C. Osborn, 1120 Broadway, San Antonio, Texas.

SALE OR TRADE—SEDGLEY SPRINGFIELD Sporter 30-06, excellent, 40 cartridges, $110.00, Savage .300, excellent, 73 Super X 180 gr., $80.00, Winchester 30-30 carbine, new, 35 cartridges, $40.00, Winchester M53 .25-20, excellent, 100 cartridges, $40.00, Rigby Ballard, 6½, .38-50, very good, Colt heavy barrel Officers' Model .38, excellent, $60.00. .32 Colt Automatic, new, 25 cartridges, $35.00. Will trade any or all for fine S.S. Target rifles. T. J. Cooper, R. #7, Meadville, Penna.

SALE OR TRADE—COLT SHOOTING MASTER .44 S&W Spec. Complete reloading outfit, large stock components, primers. Many extras. Write for details. $165.00. X-Ring bullet trap, with light bracket $22.50. Want Lyman 1A for Winchester 94. Bisley flat top, condition barrel and cylinder immaterial. G. A. Staniar, Short Hills, New Jersey.

SALE OR TRADE—.22 H&R 10 INCH SINGLE shot pistol, special walnut grips, excellent, $38.00. Want 8 inch Stevens offhand .22 pistol. F. M. Dupar, Vernon, Conn.

SALE OR TRADE—TRADE WINCHESTER 70-06 for Model 70 Swift. Sell excellent Wards Hercules double, 12x30, single trigger, pad, canvas case, 8 boxes #8 shells, $55.00. Want Model Swift barrel. Edward Sautter, Route #1, Lancaster, California.

SALE OR TRADE—KLEANBORE, 25-35 OR .30 Remington $1.80, 38 Special, regular $4.00, wadcutter, $3.00. Want smokeless 40-82, 9mm Luger cartridges, 12 or 16 gauge shells. Kenneth R. Gibson, 2075 W. Lincoln, Birmingham, Michigan.

SALE OR TRADE—WE BUY, EXCHANGE AND sell all types of binoculars. Alden Loring, Owego, N. Y. 6-44

SALE OR TRADE—CARL ZEISS JENA TURACT 8X, individual focusing, perfect condition, leather case, $125.00. Will accept Colt OMT with ammunition in part payment if excellent or better. R. I. Gibbs, 70½ Edgewood Ave., Atlanta, Ga.

SALE OR TRADE—RIFLEMAN 1932 TO AND including 1943 complete, excellent, $30.00 or trade on Fecker ¾". Richard Mason, Lisbon, Ohio.

TRADE, NO SALE—LATEST, PERFECT LYMAN 20X Super Targetspot, case ⅝" Lee Dot, recoil spring and $50.00 for Unertl 2" at least excellent. Sell—One beautiful, flame, tigertail maple, Mannlicher length blank, one beautiful flame, Myrtlewood Sporter blank, positively dry, either $10.00. Sell Mauser .22 bolt action only, NEW, IN WHITE, singleshot. Super action for special target rifle, $35.00. Pay $20.00 for V.G. Sam Moore scope stand or trade above action and take $10.00. Want—Expert to reload 410-3" ball shells with ¾ oz. 6 or 7½ shot. Card or stamp appreciated. "Lifer" Basil Tuller, Galeton, Penna.

SALE OR TRADE—PEDIGREE POINTER PUPS, farm raised, Ch. Spunky Creek Boy & Ch. Air Pilot, blood lines, $50.00 each or trade for modern guns. Harold Hemmelgarn, R.R.#1, #105, Maria Stein, Ohio. 8-44

SALE OR TRADE—12 GA. PUMP, WINCHESTER, 1912 Model, plain $62.00. Ribbed, $68.00. Colt antique .31 caliber, 4" barrel, 1849 very excellent. Trade for binocular. Paul Schweer, Donnellson, Iowa.

SALE OR TRADE—GUNS, AMMUNITION, CUSTOM reloading, buy, sell, or trade, F. Emerson, Auburn, Mass.

SELL OR TRADE—ALFA, 38 SPECIAL 5", $35.00. Beistegui 38-4", $30.00. Excellent in, v.g. out, smooth actions, deep rifling. Want binocular. Edgar Nash, R. 1, Poway, California.

THREE M98 MAUSER ACTIONS COMPLETE, fitted with new .30-'06 barrel, no sights or wood, $40.00 each. Fine 1893 Loewe Berlin Spanish Mauser action fitted with new M70 carbine barrel 7mm, $50.00. Trade—new 30S, .30-'06 barrel for Winchester 70 or 54 barrel, new condition in caliber .250-3000, .257, 270, 7mm or .30-'06. 20 piece kit of new parts, such as extractors, hammers, firing pins, etc., for .45 automatic, $7.00 valuation for $2.00 postpaid. 50 new small parts for Winchester SS $1.50, postpaid. Winchester SS low receivers, new, with lower tang, $1.50, postpaid. WANT—DCM "C" stock and sporter stock, unaltered. G. R. Douglas, Box 773, Belle, West Virginia.

KRAG 24" RAMP FRONT, 48 REAR BISHOP stock, 30 cartridges, $40.00. Colt-Army .38 Special, plastic grips, holster, 2½ boxes cartridges, $30.00. WANT—32 Winchester Special and 7mm Mauser. M. E. Barge, 45 State, Middletown, Penna.

100, .38 SPECIAL 158 GRAIN FULL CHARGE reloads. Very accurate and clean. $2.00 box. WANT—hunting knife made by Neville of KC. Byron Engle, 3018 East Seventh, Kansas City, Missouri.

TRADE—SMITH & WESSON STRAIGHT LINE, Stevens .22 tip up 12¼" barrel, Savage 1919 N.R.A. .22. Set golf clubs, including Jones registered irons. Write for details, or see my ad in April issue, second page, and under miscellaneous. WANT—Winchester, Savage, Hornet, 2R Lovell, Varminter, K Hornet, .220 Swift, with or without scope, ammunition for same. Might consider .257 caliber Roberts, or what have you? Handguns? Loading tools? Components? Alexander H. Montgomery, Hadley, Mass.

L. C. SMITH, FIELD GRADE, 20 X 26, M&F, pad, excellent in, good out, rod, canvas case, 30 boxes lacking 8 shells, $125.00. Wollensak 8 x 30 CG binoculars, optically perfect, slight case wear, case, straps, $90.00. Tri-Pak gun kit, $3.00. 24 cartridges, .375 Magnum, 15¢ each. WANT—Zeiss 8 x 30 or 8 x 40 binoculars. WANT—Zeiss 10 x 50 binoculars, both featherweight, optically perfect, cases. Dr. Don Rush, Burney, California.

CUSTOM BUILT STOEGER SPRINGFIELD Sporter, .22 L.R., excellent. 48 rear, ramp front, cost $125.00, sell, $85.00. Hopkins and Allen .38 police, $10.00. Starrett 12" #122 Vernier caliper in case, $30.00 or trade. Whelpley, 389 Valley St., New Haven, Connecticut.

STEVENS-SPRINGFIELD 20 DOUBLE, NEW, $35.00. 410/410 O&U, 50 Superspeeds, new, $30.00. Box 41 Short Colt, $4.00. Rimfire $4.00. 40, 300 Magnum $7.00. 500 Winchester .22-'03, $9.00. TRADE 40, .270, 60, 30 Remington auto. 60, 7mm, 200, .30-30, all Kleanbore. French drawtube spotting scope, $15.00. 9½ x 9½ umbrella tent extension curtains, $50.00. Violin $25.00. Deerhead, $20.00. Another, $15.00. Leopard, $12.00. Big-horn sheep, $20.00. Large Moose antlers, $12.00. African Buffalo horns, $10.00. Elk, $10.00. Deer, $2.00, $3.00 and $4.00. Bronze elk, $40.00. Winchester 30-30 Carbine, latest model, new condition, 200 Kleanbore $70.00. WANT—Winchester .22-'03. S. Gerhardt, Malcolm Road, Jamaica Plain, Massachusetts.

TWO EXCELLENT COLT NEW SERVICE, .45 Colt, 5½" barrels, with right and left hand steerhide holsters and belt, $110.00. Without belt and holsters $50.00 each. Cartridges for these two revolvers, $6.00 per 100. Two Colt Bisley SA, .44 Spl., 4¾" barrels, excellent in, very good out, 100 factory cartridges with each, $55.00 apiece, Remington Frontier SA, .44-40 excellent, 7½" barrel, rare in this condition, $60.00. Military 9mm Mauser, 5½" barrel, good, box cartridges, $50.00. Two H&R SA Sportsman, excellent, 100 LR, $45.00 each. Winchester M70, perfect, 100 factory loads, $100.00. Thompson Experimental Automatic Rifle, No. 23, rare, $175.00. Mondragon Gas Operated Auto Rifle, 7mm, excellent, $150.00. I have other revolvers, pistols, rifles and shotguns. Both modern and collectors items. Colt percussion revolvers. Arms of all types bought, sold and exchanged. Especially interested in Old Smith and Wesson revolvers and pistols. Send ten cents for list. WANT—Pacific Loading Tool and dies complete for .38 Special, .44 Special, .30-'06, .257 Roberts, .32 S&W Long. Will buy tool or dies separately. Also want Ideal Mould #313445 for .32 S&W Long. Also want .44 Special, .30-'06, .257, .32 S&W Long dies for Jordan Magnum Press. Have set of Jordan .218 Bee dies for Magnum Press to trade for one set of any of above dies. Also want .38-44 S&W having barrel in poor to bad condition. H. L. Remmel, 1622 Center Street, Little Rock, Arkansas. Life Member.

SEALED CASE, 1918, .30-'06 ammunition, 6¢. 35-38 National Match, 8¢. WANT—Howe's Modern Gunsmith. .32-40 Winchester or Stevens with #4 barrel, any condition. Heavy single shot, Sharps, Ballards, Winchester and Stevens. Dewey Bryant, Greenwood Mountain, Maine.

SALE OR TRADE—BLUEING OUTFIT, THREE large tanks, full burners, steel stand on casters $37.50 or trade for? B. A. Weldon, 11718 Mayfield, West Los Angeles, 24, California.

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SELL OR TRADE—Woodsman 6½ perfect, $65.00. Remington 12 gauge automatic, very good to excellent $65.00. Want 70-06, 29S, 22 Hornet cartridges or? William Willis, 3855 Marwick Ave., Lakewood City, Long Beach, 8, California.

SELL OR TRADE—.22 CALIBER ENGLISH AIR Rifle, very good or better condition, 2500 rounds English Pellets. Improved Model D adjustable sights and trigger, $100.00 or trade for Lathe or firearms or what? Harold Burnham, 110 No. Olive, West Palm Beach, Florida.

SELL OR TRADE—GOOD MODEL 12, 20 GA. $48.00. Good 30-30 Winchester carbine, one box shells $42.00. Several very good to excellent .30 and .35 Remington pump and automatics, with ammunition. Fair model 97, 16 gauge, 2 box shells, $34.00. Excellent Model 12, 12 gauge, pad and unmounted Weaver choke, $77.00. Will trade one of my 30-06 Pacific reloading tools for Pacific dies in other calibers or what? .45 Colt Automatic? Components? Forrest Weeks, Belle Fourche, S. Dak.

SELL OR TRADE—1940 Johnson Seahorse, P.O. 10-22 HP, $250.00. 30-06, Winchester #54, heavy barrel, $80.00. 30-06 Springfield Bull Gun, $90.00. 375 Dubiel Mauser Magnum, $175.00. 8mm Mannlicher-Schoenauer with 4X Hensoldt, $200.00. 357 S&W Magnum with shells, $125.00. 52 H.B. latest, $85.00. 22 Colt Woodsman with shells, $75.00. #12 Winchester 16 ga. skeet trade, rib, $85.00. All excellent condition. Want—Leica or Contax camera—Johnson outboard motor. Lowry Smith, Rochester. Penna.

SELL OR TRADE—500 ROUNDS EXCELLENT 30-06 cartridges with boattail bullets at $8.00 per hundred. Want—Colt SA or New Service. H. V. Noble, Box 195G R2, Cincinnati, 31, Ohio.

SELL OR TRADE—REMINGTON 8JA, 300 CALiber, excellent to perfect, peep and open sights, 200 Silvertips, $135.00. Want S&W Magnum or 348 deluxe. Harold Loomis, Box 71, Chateaugay, N. Y.

SELL OR TRADE—30-06 BULLGUN, MAUSER '98 action, perfect 24" barrel, ¾"x1¼", made, fitted by Bubmiller, #17 front, micrometer rear, handle turned down, heavy handmade stock with beavertail & cheekpiece, sling, action used but retreated, barrel shot forty times, exceptional gun, $125.00. Buchanan .45 auto, finished action, King redbead sights, micrometer rear, NM barrel shot 100 times, perfect except for few small scars on slide, holster, box shells. $100.00. Springfield .45-70, bore excellent, $10.00. Single cavity B&M mould .358130 wadcutter, $5.00, another same except nickel blocks, $7.00, both excellent. 4M#15 Peters small pistol primers, fresh in sealed boxes, $12.50 M. Want perfect, 4½" Woodsman, .22 OM Target recessed cylinder, .300 M70, target grade B&L 65mm. 20X or Fecker spotting scope. Money orders only. Byron H. Jennings, Lic #155652, Life Member, 112 Main, Anaconda, Montana.

SELL OR TRADE—Waffenfabrik 8MM MAUSER barrel & Action $35.00. Wanted—Colt 45 National Match, 1917 S&W, Police Positive 22 revolver, fine sweep-second wrist watch. Lt. C. E. Haines, Group 2, HAAF, Hondo, Texas.

SELL OR TRADE—COLT 38 SUPER AUTOmatic, arched housing, v.g. out, perfect in, shells, holster, $75.00, Colt D.A. 38 Special, good, $25.00. Varminter, Model 20 action, 70 barrel, excellent, $95.00, Winchester 53, 32-20, Redfield rear, 100 cartridges, v.g. out, perfect in, $60.00. Fecker 6x 1⅛", ¼ click mounts, perfect, $75.00. Hensoldt binoculars, 8x24, excellent, $65.00. B&L Drawtube, extension stand, $45.00, Want—12 ga. shells, 22 L.R. Pacific dies for .250-3000 Trade Only 1600 #1½, 800 #116, & 700 #6½ primers for #9½, 500 .25 caliber WT&CW bullets for 750, .22 caliber 41 or 50 gr. Sisk or 8S bullets. Clyde Gray, Prairie du Sac, Wisconsin.

SELL OR TRADE—30-06 ISSUED SPRINGFIELD vaver rear, Redfield front, very good shape. $60.00. Two Krags one carbine extra good, $30.00. One 30 inch extra good, $30.00. One 45 caliber S&W U.S.A. model just like new 116 cartridges, $40.00. One Winchester 52 St. speed lock #27380 perfect inside, extra good outside, ten shot clip sling shooting glove leather lace on telescope cheekrest 6 power Malcolm telescope click mounts, $90.00. One 25-20 Remington pump action, like new, $22.50. One 45-70 extra good Springfield $7.50. Want—Marlin 38 model 22 pump action or automatic 311413 Ideal mould, 31358 Ideal mould, F.A. #70 primers, Ideal powder measure, all guns will be shipped subject to examination. Frank McCray, Compton, Illinois.

SELL OR TRADE—M64 WINCHESTER 30-30. King hooded front, 38 cartridges, excellent, $78.00. K.A.R. Mauser stock, cut off, $2.50. M97 barrel only, 12 gauge, excellent 20", $5.00. 100 .45 A.C.P. $6.00. 129, .22 W.C.F. $3.50. Want 38-55 bullet seater and case resizer. Army rifle or barrel and action. Stamp please. E. A. Bastel, Prairie du Chien, Wisconsin.

SELL OR TRADE—BELGIAN BROWNING 16, engraved, Polychoke, 350 shells, $150.00. Flintlock shotguns, $35.00. Fieldmaster, 350 H.S. H.P. $60.00. Felix Phillips, 1508 Clover, Amarillo, Texas.

SELL OR TRADE—M70 HORNET, 48WJS, sling, near excellent except some scars. New Weaver 330, Stith mount, Tilden Safety, 250 shells, $155.00. M94 carbine, half magazine, 32 Special, good, 24 shells, $38.00. Colt 45 Army Automatic, good except finish and bore, $40.00. Want M75 Sporter, 22 handgun 22 L.R. cartridges or? Stamp Please. Eldon Hildabrand, Russellville, Ky.

MODEL 70-06 TARGET MODEL WITH MEDIUM weight barrel, Marksman stock, scope blocks, cheekpiece, special blocks for Remington 37 sights added. Excellent to perfect. Fired 80 times. $150.00 or TRADE for 70, 257 Roberts, cases, bullets and Pacific dies. Same condition. E. F. Doig, 836 W-115th St., Los Angeles 44, California.

ITHACA DOUBLE N.4, 12-GAUGE, 30" BARrels mod. ventilated rib, S.S. trigger, beavertail forend, auto ejectors, recoil pad, new condition, cost $221.00, sell $150.00. Winchester 12, 12-gauge, Mod. 30" nickel steel barrel, excellent, $60.00. Money orders. WANT—Ithaca 37S, 12-gauge, 26" or 28" barrel. C. Cipolla, West Grove, Penna.

NEW MOSSBERG AUTOMATIC RIFLE, SLING, 200 rounds, $30.00 or trade for 86 Winchester, 45-70. Still need 45 auto receiver. Write Pvt. Charles Marsh, 418 Cedar Avenue, Mt. Vernon, New York.

WINCHESTER 54, .30-'06, EXCELLENT, CHECKered stock, gold bead, open rear, 20 inch barrel, sheepskin case, $60.00, or 52 Winchester of equal value. Charles Whipple, 237 West Main St., Somerset, Penna.

S&W TRIPLE LOCK TARGET, .44 SPECIAL, excellent plus with 300 cartridges, target grips and case, $125.00. Winchester 94 carbine, 60 cartridges, .30-30 new, $60.00. WANT—Winchester Hotchkiss Sporting rifle, sound solid third model Colt Dragoon. Lloyd Bender, Galion, Ohio.

BROWNING O&U LIGHTNING MODEL SST automatic ejectors, IC and Mod. 26" barrels, very good plus, $115.00. Colt .45 automatic, 1911 Government Model, fair, $35.00. '98 Mauser action, $15.00. .344 Weaver scope, $12.00. WANT—4½" Woodsman, .22 L.R. ammunition or? Robert Black, 1210 E. Harper, Maryville, Tennessee.

TARGETSPOT 8X, $65.00. WANT MODEL 70 Swift and Zeiss or B&L binoculars. Clarence Jordan, 110 N. Hancock, Madison, Wisconsin.

PERFECT BAUSCH & LOMB 7 X 50 BINOCUlars, case, $135.00. Perfect factory carton Bausch & Lomb 8 x 40 binoculars, case, $150.00. New Savage M219 Hornet with new Weaver 330, both factory carton, two boxes cartridges, $67.50, no splits. New factory 219 Zipper cartridges, $1.75 box. C.O.D. only. WANT—New or perfect Winchester M64, 219 Zipper rifle. Harry Tharratt, Silver Lake, New York.

SAVAGE 12-GAUGE AUTOMATIC, 28 INCH Mod., excellent, $70.00 or TRADE for ex. Remington or Browning 16 automatic. Remington Mod. 25-25-20 v.g., 1 box H. Speed O.P. & 19 Soft Points, $37.50. WANT—Excellent Colt Woodsman 6½ inch. P. R. Lilly, Valdosta, Georgia.

SELL OR TRADE—MAUSER, WAFFENFABRICken Berlin, 7mm, 1893 Military, excellent inside, cartridges, $50.00. Western Arms 12 gauge shotgun, shells, $35.00. Winchester 1892, .25-20, new barrel half magazine, never shot, $40 00. W. W. Greener 10 gauge double muzzle-loader, $25.00. Another, no name, cracked grip, $10.00. 50-70 Springfield, fair, $10.00. 58 Civil War rifle fair, $10.00. F&W British Bulldog .32, fair, $10.00. Want—S&W Russian, Colt S.A. Bisley, cap and ball revolvers, muzzle-loading rifles. Ernest Baldwin, R.D. #1, Trenton, N. J.

WINCHESTER 64, WEAVER 330, 100 ROUNDS, very good, $125.00. L. C. Smith 410 double, field grade, ejectors, perfect, 100 shells, $120.00. S&W .32-20, 6", slight holster wear, otherwise excellent, $50.00. S&W .38 Special Target 6½", line on cylinder, excellent, $75.00. S&W .45 Army 1917, very good, $55.00. Colt 41 D.A., excellent, 100 rounds, $45.00. Colt .45 New Service, excellent, 100 rounds, $60.00. Colt .380 automatic, very good, $45.00. Flare gun, very good, $15.00. Detective dictograph, perfect, $75.00. WANT—S&W, M&P 2", Masterpiece, Kit-gun, Colt Officers' Model 22, National Match, Super Match, .45 Commercial. F. W. Poulson, 19101 Shaker Blvd., Shaker Heights, Ohio.

FOR SALE OR TRADE—25 REMINGTON 30 EXpress light barrel model with cheekpiece stock, fitted with B&M Marksman scope, leather scope case both scope blocks on barrel, extra blocks on strip. Some unfired cases, about 500 empties, 300 bullets, parts for B&M tool and other tools and accessories, very good in, good out. $110.00. WANTED—22 bolt action Varmint rifle, preferably with target weight barrel. Dunlap Roddey, 148 Oakland Ave., Rock Hill, South Carolina.

16 H.P. NEPTUNE OUTBOARD MOTOR, REbuilt to practically new condition. $225.00. F.O.B. TRADE—Winchester 72, excellent. WANT—22 Match rifle, 38 Super or 45 automatic, Browning Sweet Sixteen, Vermin outfit. George Gustin, 1471 Vernon, Wabash, Indiana.

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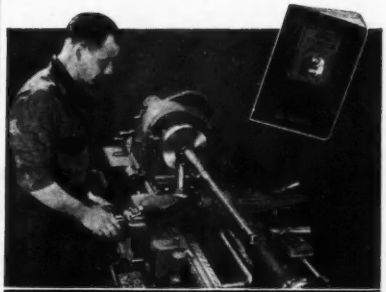

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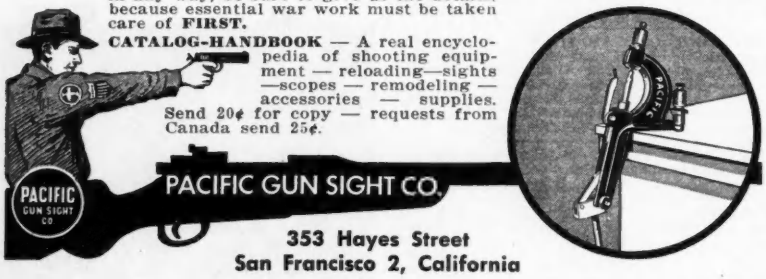

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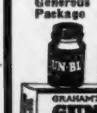

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WILL TRADE 256 NEWTON, 35 WINCHESTER, 9mm. Luger, 22 Hornets, 33 Winchester 45-70, 25 caliber, 270 Winchester, bullets for 8mm. Mauser, 348, 270 Winchester, 250-3000, 30 caliber bullets. Need good Lyman #2 shotgun loading tool. Jim Clark, 2029 W. Fond Du Lac Ave., Milwaukee, Wisc.

TRADE—12G. SHELLS, FEW 20, 16G., 30-30 W. 22 L.R. cartridges. Want camera, W30-30, binoculars, etc. Sell snowshoes, 3X glasses, Marble hatchet, fishing equipment, stuffed pike, 9x9 tent, Springfield 45-70. List for stamp. Bert Dutcher, Hancock, Minnesota.

TRADE—NEW SERVICE 45, EXTRA BARREL, cylinder 38 Special, King sights, $60.00. 22, 38 Officers' models, Army Special, Police Positive. Several others, ammunition. Want—Good rifles, especially 270, 30-06 loading tools, powder measure, primers bullets etc. Milton Spriggs, 119 Haskell, Battle Creek, Michigan.

TRADE—COLT 32 REVOLVER FOR, OR WILL buy Savage 19 or other 22 target rifle. J. T. DeLacy, Havana, Florida.

TRADE—EXCELLENT REBUILT ROYAL Standard typewriter for 22 long rifle ammunition. Trade small pistol primers for L.R. primers and 30 caliber gas checks. Carl Lawrence, Box 659, Gainesville, Georgia.

TRADE—LARGE, SMALL RIFLE PRIMERS FOR government boattail bullets, sell 38 Special Officers' Model Target, heavy barrel, Kinged 10X & Standard grips 23 cartridges, $90.00. A. Libengood, Donora, Penna.

TRADE—HIGH GRADE 21J WEBB C BALL. 16 size pocket watch, Want 20 Winchester pump or 22 Colt Automatic. Earl R. Troutman, R.D. #4, Chardon, Ohio.

TRADE—IDEAL LUBRICATING SIZING DIES any caliber, trade for large rifle primers or bullets. R. C. Himebaugh, 84 West, Battle Creek, Michigan.

TRADE—.22 M2 SPRINGFIELD, VERY GOOD. $55.00. 30-06 Springfield Sporter, Redfield peep, excellent $65.00. Enfield as issued, excellent, $40.00. Trade any above or Barnes .270 or .30 caliber bullets, #8½ primers, new Enfield barrel, or 5 bow German Silver drawing set for .22 bullets, Hornet ammunition, or small primers. Aurand, 340 Logan, Lewistown, Penna.

HAVE VERY GOOD PLUS WINCHESTER S.S. low wall action, perfect Weaver T1 mount. Want Winchester hi-side S.S. No. 3 action. Must be nickel steel, late manufacture, excellent throughout. Pvt. Richard Parker, 18 Main, Durham, New Hampshire.

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TRADE—500, .22 L. R. FOR 1,000, 120 OR 116 primers. 7mm factory ammunition for 300 Savage ammunition. SELL—Remington Express '06 with 2¾ Noske scope, outfit very good in and out, 100 rounds ammunition, $125.00. Clark Wilson, 2605 Auburn Avenue, Dayton 6, Ohio.

38 COLT, .32 COLT AUTO. EXCELLENT. Handee grinder. WANT—Outboard, .30-'06, .351, .348 cartridges. Arthur Stoll, 603 Sixth, Racine, Wisconsin.

300 SAVAGE .30-30, .270, 22 L. R. FOR .348 AMmunition. Dr. H. Walters, St. Luke's Hospital, Denver, Colorado.

2,000 WINCHESTER HORNET BULLETS AND 2,000 Western 209 primers for Winchester and or Western small or large rifle primers. Winchester list price basis for trading. Stamp please. W. M. Geiger, 5421 Winthrope Avenue, Indianapolis, Indiana.

WINCHESTER BEE, BELDING AND MULL three-power scope, Zeiss six-power monocular, Bell Howell Model 70, 16mm, cartridges, .270, .25-35, .38 Special. WANT—Browning Lightning 28 inch. rib, imp. cyl., mod. Cartridges, 410 gauge, 300S. C. Caruthers, Box 184, Irwin, Penna.

TRADE—GOOD ASSORTMENT REDFIELD sights models 70 and 102, also ramps and junior scope mounts. Will trade for 22 LR. J. A. Thacker, P.O. Box 363, El Paso, Texas.

TRADE—PERFECT BROWNING LIGHTNING O&U skeet, 26" for same with 28" or 26" barrel & more choke. E. S. Cornell, Charlestown, N. H.

TRADE—SEVERAL THOUSAND 110 GRAIN OP jacketted bullets size .321. Want primers or jacketted bullets size .225 and .348. Coman, 14414 Cruse, Detroit, Michigan.

TRADE—WILL TRADE THREE SMALL PISTOL NMNC primers for two large rifle, small rifle, #209 and #57 shotgun primers. Will trade 70FA 45 ACP primers even for any of above. Coman, 14414 Cruse, Detroit, Michigan.

AMMUNITION, FACTORY AND HANDLOADS, loading tools, cast bullets, .30 caliber O.P. bullets. Need S.P. primers, soft point bullets, cases and .30-'06 full length resizing die. Stamp for list. Steve Clark, 3024 Alabama Avenue, Minneapolis 16, Minnesota.

WANT TO TRADE 100 ROUNDS BRAND NEW .257 Winchester Roberts Silvertip cartridges for 100 rounds brand new Silvertip .30-'06 cartridges. Please write. O. L. McNealy, Jr., Rocksprings, Texas. Member.

TRADE—SPRINGFIELD MODEL T 30" HART speed action Bull Gun .30-'06, excellent. For Browning 12 Over and Under 26", Skeet or I. C. and modified in like condition. Milo R. Coleman, 947 Kennebec St., Pittsburgh 17, Penna.

BRAND NEW, UNFIRED 720 REMINGTON .30-'06 for 7mm. equal condition, 720 or Winchester 70. Open sights. Buck Greever, Wichita Falls, Texas.

TRADE—WINCHESTER MODEL 63 RIFLE with Weaver 344 scope, 2½ boxes ammunition, very good condition, for good 2 to 4 power hunting scope. Clark McNutt, 389 Champion, Battle Creek, Michigan.

NEED .256 OR 6.5MM BULLETS ONLY. WILL swap .357 Mag. shells, both sizes rifle primers, .221/r Hi-Speed, carton lots, .22 S.H. bullets. Write. A. E. Ellinger, R.D. Springwater, N. Y.

TRADE—FOR RENT, MOULDS, TOOLS, DIES, Ideal lubricator. Trade, cast bullets Ideal 225438, bond 257616, 280780 for moulds or? Helmer Romness, Zumbrota, Minnesota.

TRADE—COLT'S SUPER .38 AUTOMATIC, EXcellent, 300 Super X cartridges. Want—Lyman all-Weather Alaskan, Cross-Hair, Redfield Mount, for Winchester 70. S/Sgt. William French, 327th George Field, Illinois.

TRADE—.22 Hornet, 250-3000, 257 Roberts, 30-30, 30-06, .38 Special, .45 Automatic, trade for .22 L.R. or what? Abraham Epstein, 267 Carpenter Avenue, Newburgh, N. Y.

TRADE—WINCHESTER 12, 12-30" FULL, TRAP, solid rib, select checkered stock and slide. Straight grip, excellent, extra skeet stock. Want equally good double, 12-10-8. Edgar Nash, R. 1, Poway, California.

TRADE—SMITH & WESSON HAMERLESS .38, excellent, 100 Western cartridges. Want—Weaver 330-C, Cross-Hair. S/Sgt. William French, 327th, George Field, Illinois.

TRADE—HAVE HORNET GAS CHECKS TRADE 1000 for 300 primers, also some gas checked bullets for primers. Carl Lindahl, 180 North Wabash, Chicago, Illinois.

TRADE—We have several good revolvers and automatics, with cartridges, also hand made hunting knives. List of guns and ammunition for stamp. The Egyptian Gun Exchange, Cambria, Illinois.

TRADE—BRAND NEW 330S WEAVER SCOPE, cross-hair, B mounts, Want 2000, 22 LR fresh ammunition. Jesus E. Andrade, P.O. Box 363, El Paso, Texas.

TRADE—ONLY 700 .22 SISK 40 GRAIN, 1M. 116 primers and cash for 12 Ithaca 37. B. A. Weldon, 11718 Mayfield, West Los Angeles, 24, California.

TRADE—SMALL NMNC PISTOL PRIMERS FOR large NMNC pistol primers. F. F. Priest, 903 Hanover Ave., Norfolk, Va.

TRADE—500 NIEDNER, SISK, O.S., 63 GR. bullets for 40 to 55 gr. Sisks. Even swap. Paul Ratliff, Hillyard, Washington.

TRADE—NEW 48WJS FOR VERY GOOD OR better 48 or 48K. Rex Gun Shop, Odessa, Texas.

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WANTED—FAIR PRICES PAID FOR TARGET pistols, revolvers, rifles and antique guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-72, 13 S. 16th St., Phila., Penna.

WANTED—EXCELLENT COLT 38 SUPER AUtomatic with ammunition, state price. J. A. Thacker, P.O. Box 363, El Paso, Texas.

COLT OFFICERS' MODEL .22 CALIBER. I. D. Goodwin, c/o P. D. M. Steel Co., Neville Island P. O., Pittsburgh, Pa.

BENJAMIN HAENAL OR CROSMAN AIR RIFLE. Good or better. Frank Kubrock, 286 Ogden St., Orange, N. J.

WANTED FOR CASH 18 AND 36 PEDESTAL model complete bullet trap X ring model. Leo Remiger, Sleepy Eye, Minnesota.

WANTED—WINCHESTER M70 SUPERGRADE, Colt Officers' Model 22, Winchester 75T, Belding and Mull powder measure. Please state price and condition. M. Terzenbach, 11916 Oklahoma Avenue, Hollydale, California.

WANTED—FOR OVERSEAS DUTY, COLT .45 automatic commercial model, excellent to perfect condition throughout. Holster and extra clips preferred. Will pay $90.00 for the entire outfit. Sgt. Edward K. Bowser, Altitude Training Unit, Station Hospital, Army Air Field, Pyote, Texas.

WANTED—PERFECT M70, .30-'06, 270. C.O.D. subject to examination delivery only. Fred C. Skwisz, 111 Myrtle St., Indian Orchard, Mass.

22 COLT REVOLVER ON .45 FRAME, OR COLT Woodsman in good condition, wanted by Army officer, 1st. Lt. Max Wall, Hq. TC-UTC, Camp Plauche' New Orleans, La.

WANTED—10 GAUGE MAGNUM DOUBLE, state condition, length, choke. E. G. Cross, 1634 Grant Ave., Ogden, Utah.

WANTED—MODEL 1917, .45 CALIBER, S&W new Service. Write R. M. Richmond, 300 N. 6th St., Hannibal, Mo.

WANTED—SEDGLEY SPRINGFIELD .30-'06 Sporter, also 52 Sporter. Must be as issued and perfect. All letters answered. Joseph Rupp, 421 College, Lancaster, Penna.

WANTED—FOR FOREIGN SERVICE COLT SA Frontier .44 Special, .45 automatic or .45 Colt, 7½" barrel, blue, excellent or perfect. Also .45 automatic cylinder for SA. Examination privileges. Lt. Kenneth C. Endicott, 0-763535, c/o 352 Highland St., Pasadena, Calif.

CASH FOR JUNK OR POOR .45 AUTOMATIC Colt pistol M1911 or M1911A1. Need it badly. Lt. (jg) R. L. Suey, USNR, Group B Navy 1504, c/o FPO., San Francisco, California.

PAY UP TO $70.00. K22 MASTERPIECE OR Colt O.M.T. Targetmaster, latest model, perfect only, 4"-6". Prefer accuracy job, custom grips. Examination. Lee Williams, 1321 Medical Arts, Houston, Texas.

WANTED—22 HIGH POWER OR 250-3000 SAVage lever, ammunition. Harry Laridien, Reedsburg, Wis.

WANTED—M12, 16, SKEET MODEL, OR similar, excellent to perfect only and shells. Give price and full descriptions. L. H. Bible, 1330—30th St., Bakersfield, California.

WANTED—22 OR 25 CALIBER STEVEN'S single shot pistol with ammunition. M. Hatfield, O'Keefe, West Virginia.

WANTED—COLT .25 AUTOMATIC, CONDITION excellent or better, also ammunition. Prices and description first letter. Geo. Y. Greiman, 545 Hill Street, York, Pennsylvania.

WANTED—BARREL AND RECOIL MECHANISM of 37mm gun. 1st Bn., Georgia State Guard, Rome, Georgia.

WANTED—MODEL 12-20, 26" OR 28" FULL, excellent bore—two boxes factory loads 22 Hornet. Captain H. S. Harding, (MC) U. S. Navy, U. S. Naval Hospital, Farragut, Idaho.

WANTED—NOSKE 4-POWER SCOPE, TYPE A. Merlin S. Jinks, 44 Green St., Fairfield, Ohio.

WANTED—20 GAUGE AUTOMATIC. FOR SALE —190, .30-'06 blanks, $6.00. Winchester 24, 20 gauge, excellent, $45.00. Delbert R. Wells, 308 E. Mulberry St., Salem, Indiana.

WANTED—SAVAGE MODEL 1899, TAKEDOWN, not 22 high power. Remington 22 auto model 16. Ammunition for both. Wilbur Bliss, Ingalls, Michigan.

WANTED—PERFECT OR EXCELLENT MODEL 70 Winchester .270 caliber with either Lyman Alaskan or Noske or Weaver 330 scope and cartridges loading tools and components. Thomas Sale, Box 426, Panama City, Florida.

WANTED—TYPE C OR DCM SPORTER STOCK for 30-06 Springfield. Roper grips for .357 S&W Magnum and S&W Military and Police. Multiple bullet mould for .38 S&W Special wadcutter. E. S. Burrell, 717 Wyndmoor, Phila. 18, Penna.

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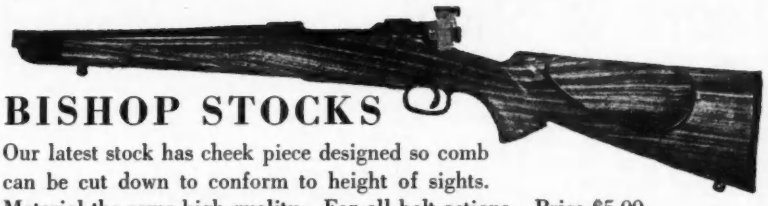

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WANTED—HORNET BARREL FOR BALLARD, medium weight, 16" twist, also Hornet ammunition. Leon Webster, 74 Bedford Rd., Battle Creek, Michigan.

WANTED—WINCHESTER MODEL 21, SINGLE selective trigger, automatic ejectors, two sets of barrels, one chambered for 3 inch shell. Excellent to perfect condition. All letters answered, explain fully. Melvin Moore, Kahlotus, Washington.

WANTED—WINCHESTER HI-WALL ACTION OR rifle. Chester Nikodym, 1615 N.B.C. Building, Cleveland 14, Ohio.

WANTED—TRIGGER SHOES FOR REMINGTON 720 and Winchester 75S. 150 grain .30-'06 factory. Will buy or trade 220 or 257 factory. B. Murdock, Woodstock, Va.

WANTED—20-POWER SUPER TARGETSPOT. J. R. Thompson, Burt, Iowa.

ZEISS OR HENSOLDT 4X SCOPE, WITH OR without mount. Must be excellent to perfect. Also Griffin & Howe double lever mount with micrometer windage. John Pelesky, 1106 Commerce Street, Tacoma 2, Washington. Life Member.

20X LYMAN SUPER TARGETSPOT. MUST BE excellent or better. Lucian Kelly, B653, Belle, W. Va.

WANTED—TO MY FRIENDS AND CUSTOMERS: With your cooperation have accumulated one of the most representative stocks of gun books in the East. Immediate shipment on majority of list titles, present conditions permitting. Free book list to all shooters, collectors, gunsmiths and arms students interested in increasing their knowledge through the use of a properly selected reference library. Request advance literature on "Firearms of The Confederacy" Fuller & Steuart, "Smith & Wesson" McHenry & Roper, "American Ancestral Arms," Sawyer. Reed Thompson, Jr., Lewistown, Penna.

WANTED—38 SPECIAL TARGET PISTOL. WINchester 70 action. Spotting scope. 300 Savage rifle. Give description and condition. F. F. Priest, 903 Hanover Ave., Norfolk, Va.

FULL SET RELOADING TOOLS FOR .22 HORnet, #3 Ideal tool and components. Also .22 Hornet factory ammunition. Give description and price. Archibald Pirson, 165 Laird Avenue, Buffalo 7, N. Y.

WANTED TO BUY—AMMUNITION, GUNS, fishing tackle, outboard motors. What have you? H. E. Roehrs Co., 390 Demarest Ave., Closter, N. J. 7-44

MODEL 70, 270 WINCHESTER, EXCELLENT TO perfect, Super or Standard grade. Any sights, also Hensoldt Dialytan. Henry Adolphi, 77-D McNeal, Bremerton, Washington.

WANTED—3A KODAK SPECIAL, 616 KODAK Special, Monitor, Vigilant. George Bodo, 69th Squadron, Tyndall Field, Florida.

WANTED—75 WINCHESTER TARGET EXCELlent to perfect with ammunition. Also Hornet ammunition. Harold Crawford, Baxter R1, Penna.

WANTED—ANY GOOD MAKE STRAIGHT LINE loading tool with dies for Hornet, .25-20 or .38 Special. Also bullet moulds and Ideal sizer, lubricator in above calibers, and bond powder measure. Edward Wallace, 2401-B Strjngtown Rd., Evansville, Indiana.

WANTED—16-GAUGE DOUBLE, PERFECT TO very good, give details. Wm. E. Gilbert, Tyrone, Penna.

WANTED—2R LOVELL, 8MM MANNLICHERSchoenauer; 30-06 Sedgley Springfield; 30-06 Model 70 Super grade, 7mm Mauser or Model 70, 6mm Lee Navy, 505 Gibbs. Will pay excellent price. Must be perfect to excellent (N.R.A. STANDARDS). Dr. Russell C. Smith, Box C, Barron, Wisconsin. Life Member, N.R.A. 7-44

WINCHESTER MODEL 12, 16-26", MODIFIED, raised rib preferred. Homer Cordell, Wenatchee, Washington. 6-44

WANTED—WEAVER 330C, CROSSHAIR, PERfect optically. Redfield Jr. mount for Weaver 330 on M-70 WINCHESTER. Will trade Stith "Install-It-Yourself" mount (W330, M70) for Jr. factory .270 WCF, 130 or 100 gr. ammunition. Miles Fester, Bloomsburg, R4, Penna.

WANTED—LOVELL 2R RIFLE PERFECT CONdition with or without scope. Reloading tools and components for 2R. Sharpe's "Complete Guide to Handloading." Lt. Miller, Tasley, Virginia.

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NEW BARRELS, Colt Single Action .32 W.C.F., 5½" nickel, .38 W.C.F. 5½" or 7½" blue, .44 W.C.F. 5½" or 7½" blue, each $4.95. Colt Officers Model Target .38 Special 6" heavy barrel, no sight blade, $5.95. Official Police .38 Special 4", 5" or 6", blue, $4.25. Woodsman, 4½" no sight blade, $4.95. Pol. Pos. .32 cal. 2", 4" or 6", $3.75. Ace 22 Auto. $4.95. Limited quantity!

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WANTED—BULLET SIZING DIE, .3095 FOR Ideal lubricator and sizer. Also 300 Savage dies to fit Pacific tool and empty 300 Savage cases. John Riegger, Ryderwood, Washington.

COLLECTOR WANTS CASED, FLINTLOCK AND Percussion pistols, bladed weapons. W. H. Lydick, Moundsville, West Virginia. 6-44

WANTED—WILL PAY $100.00 FOR PERFECT or excellent model 70 carbine in 7mm or .257 with some ammunition. Raman Beatty, Pacific Power & Light Co., Hermiston, Oregon.

WANTED—CREEDMOOR LONG RANGE TARget rifles, prefer Sharps Creedmoor and Ballard A1 long range models in fine condition. Also want heavy barreled Sharps Buffalo guns. Want Colt Bisley & Frontier presentation engraved revolvers in fine condition. M. C. Clark, 169 N. La Peer Drive, Beverly Hills, California.

WANTED BADLY .224 JACKETED BULLETS, 55 grain, any quantity. C. W. Southworth, New Hartford, New York.

WANTED—TWO .257 ROBERTS 70 WINchester or one 70 Winchester and one 720S Remington. Excellent to perfect. With or without scopes. A. Robb, 422 Selling Bldg., Portland 5, Oregon.

WANTED—M70 WINCHESTER .257 OR .270. Also Colt Woodsman. W. G. Martin, 3379 Santa-Ana Street, Huntington Park, California.

WANTED—COMPLETE RELOADING SET, PREfer Pacific, for .45 auto. G. C. Sayer, Jr., I.A.A.F., Independence, Kansas.

WANTED—PACIFIC DIES COMPLETE, PACIFIC automatic primer feed and shell trimmer, shotgun, rifle and pistol primers. Have .32 caliber 110 grain hollow point bullets to trade for .30-30 and 348 bullets. Coman, 14414 Cruse, Detroit 27, Michigan.

WANTED—JOHNSON OUTBOARD MOTORS, not larger than ten HP. State model, condition, price. I pay express. Fred Wehman, Box 415, Charleston, S. C. 8-44

WANTED—VOLCANIC PISTOLS, PERCUSSION revolvers, powder flasks, palm pistols. Charles Fritz, 2169 Glenside, Norwood, Ohio. 6 44

WANT—22 SHORTS OR LONG AMMUNITION. Will pay ceiling prices. Immediate cash, distance no barrier. Or will trade .22 long rifle for shorts. Equal exchange. Peerless Vending Machine Company, Dept. AR, 220 West 42nd Street, New York, N. Y. Wisconsin 7-6173. tf

WANT—LYMAN ALASKAN ALLWEATHER OR Noske 1A or 3A, v.g. or better, post or dot, with or without mount for Winchester 70. Will pay to $75.00 if perfect. Arthur Erwin, 7831 Milwaukee Avenue, Wauwatosa, Wisconsin.

THE GRAND COULEE DAM SPORTSMAN'S Association need .22 caliber ammunition for predatory drive. Communicate with secretary, 700 Fir St., Coulee Dam, Washington.

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WANTED—OUTBOARD MOTOR. EVINRUDE 33 H.P. Speedifour, late model. Any size or model Johnson up to 10 H.P. J. L. Fricks, Albertville, Ala.

WANTED—38-44 OUTDOORSMAN. STATE CONdition, price. Also want 52 Sporter. Lucian Gillis, 201 Court, Memphis, Tennessee.

WANTED—SHOOTING MASTER OR NEW SERVice .45 A.C.P. caliber, 4" barrel preferred. J. A. Hale, Natchez, Mississippi.

WANTED — WINCHESTER 63 AUTOMATIC, very good. Latest model Schick shaver. George Eicher, Arizona Game Dept., Phoenix, Arizona.

WANTED—PERFECT, LATEST COLT OFFIcers' Model Target, .38 Special, 4 or 4½ inch barrel, Patridge sights. S. W. Adams, 815 No. West St., Visalia, California.

WANTED—SPRINGFIELD SPORTER ARSENAL barrel never fired. Merrill Anderson, 2881 North 59th St., Milwaukee, Wisconsin.

WE PAY CASH FOR GUNS AND AMMUNITION. Alliance Gun Exchange, Alliance, Ohio. 7-44

WANTED—.357 S&W MAGNUM AND AMMUNItion if sensibly priced. Major J. R. Reasonover, Fort Huachuca, Arizona.

WANTED—MODEL 1876 WINCHESTER, OCTAgon barrel, full magazine. Very good to better. Model 1892 Winchester, octagon barrel full magazine, 32-20 caliber. Excellent or better. Model 1894 Winchester, octagon barrel, full magazine .32-40 or .38-55 caliber. Excellent or better. Please give complete description in first letter. W. H. Neuendorf, 880 W. Grand Avenue, Decatur 43, Illinois.

WANTED—300 MAGNUM, PREFERABLY WITH mounted scope, some ammunition. Ralph Emerson, 161 Cortland Avenue, Highland Park 3, Michigan.

WANTED—TARGET PISTOL, RIFLE, SHOTGUN, camera, binoculars, spotting scope. Stanley Krzak, 102 Cameron St., Pawtucket, R. I.

WANTED—PERFECT 7 X 35 BAUSCH & LOMB individual focus binoculars. Wm. Lampke, Box 419, Bothell, Washington.

WANTED—SPORTER GRADE WINCHESTER 75 or Remington 513S. Must be reasonable. C. G. Stetson, 46 Robert Treat, Milford, Conn.

WANT—EXCELLENT WEAVER 29S. ALSO want original Winchester single shot Hi-Wall rifles. Also actions only. Harry Lee, 400 West Madison, Chicago 6, Illinois.

WANTED—COLT .25 AUTOMATIC, EXCELLENT condition, and ammunition, prefer extra clip. H&R .22 new Defender, 2" barrel, excellent—Perfect. No appreciable cylinder or joint play. Pvt. Brent Peabody (Life Member) 701-14th St., Alexandria, Virginia.

WANTED—45-70 EMPTY CASES PREFERABLY new. H. G. Engelhardt, 1641 Olive St., Baton Rouge, La.

$100.00 FOR ANY OF THE FOLLOWING, MUST be excellent or perfect. Model 70 or 720 Remington only, .220 Swift, .250-3000, .257 Roberts, .270, .375 Magnum, Zeiss or Hensoldt 4-power telescopes. $5.00 per hundred for 87 gr. WT & CW 25 caliber bullets. Please write me. I am always too late on replies even by wire. Dr. Louis Bairo, Professional Building, Phoenix, Arizona.

WANTED — REMINGTON SPORTSMAN, 16-gauge, factory new or perfect, give details. Edmund Czenski, Benton, Illinois.

WANTED—LATE COLT POLICE POSITIVE TARget, Woodsman, S&W. Kit Gun, 25 Colt, Winchester 20 pump, Martin Ruedger, Carson City, Michigan.

GUNS WANTED—REVOLVERS, RIFLES, SHOTguns. State model, caliber, condition and best cash price first letter. No trades. The Jaymac Co., Jackson, Michigan. tf

WANTED—GOOD ACTION FOR WINCHESTER 52, old or late style action. R. P. Winegardner, Bryan, Ohio.

WANTED—GOOD DOUBLE BARREL 28-GAUGE shotgun, subject to inspection. W. E. Bettridge, Lakeside Biscuit Company, Toledo, Ohio. 6-44

WANTED—A1 TRUE TEMPER ROD WITH reel. Remington Over & Under skeet 12-gauge ventilated rib. 30-'06 caliber bullet puller, seater and cramper. A. L. Terhaar, 6425 Cross St., Jacksonville, Florida.

WANTED—WILL PAY CASH FOR WAR RELICS rifles, bayonets, knives, etc. Adrien Grenier, North Grosvenordale, Conn.

WANT—LIGHT PARKER OR ITHACA TWELVE or sixteen, ejectors only. R. P. Haun, Coleman, Texas.

WANTED—FOR CASH: KENTUCKY FLINTlock and percussion rifles, also military long arms. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

WANTED—SMITH & WESSON TERRIER, 38 caliber 2" barrel with two rounds of 200 grain bullet ammo. F. Dwight Foster, Conover Lane, Red Bank, N. J.

WANT—8-10 HORSEPOWER OUTBOARD MOtor. Winchester 63 automatic or Remington Model 241 automatic .22 I. R. Robert Valentine, Accomac, Va.

WANT—HI-WALL OR SHARPS BORCHARDT action. Winchester M70 Hornet. German P-38 automatic pistol, scope 6 to 10 power. Reloading tools and components for 257. Mortimer Miller, Accomac, Va.

WANTED—44-40 PISTOL AMMUNITION. RAYmond P. Lueddeke, 263 Leland Avenue, Plainfield, N. J.

WANTED—WINCHESTER MODEL 70 RIFLES, all calibers. Winchester Hi-side and Stevens 44½ CF actions or complete rifles. Target and hunting scopes, lightweight high grade binoculars. Leslie Lindahl, Central City, Nebraska.

WANTED—FOR CASH: ANTIQUE PISTOLS, rifles, swords, daggers, world war rifles, relics, collections, single pieces. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

WANTED—WILSON'S WILL BUY FOR CASH—Modern handguns, rifles, shotguns. For resale. Won't pay inflation prices. All letters answered. Wilson's, 410 Finance Building, Cleveland 15, Ohio.

WANTED—S&W .22/32 KITGUN, K-32, S&W .22/-32 target, short barrel Woodsman or Hi-Standard. Savage model 40, 23-D, or 99-R. Ideal 38 Special reloading tool. R. A. Tilley, 118 Chestnut St., Medford, Oregon.

WANTED—MARLIN 39A & WINCHESTER 42-.410, 28" full or Polychoke, examination privilege please. H. R. Fish, 911 Beacon St., Madison, 5, Wisconsin.

WANTED—FINE TARGET RIFLES BY—POPE, Schoyen, Zischang, Farrow & others. Long range Creedmoor rifles both muzzle & breech loading, also want fine Sharps sporting & heavy barreled Buffalo guns. Want Plains rifles by Hawken Brothers. Will pay cash & have nothing to sell or trade. M. C. Clark, 169 No. LaPeer Drive, Beverly Hills, California.

WANTED—ANY OF THE FOLLOWING SCOPES, Zeiss Zielvier 4X, Ajack 4x68, Luxor-Hell 4X, Hensoldt Dialytan 4X, Dr. Girard 4X or Lyman Alaskan. Wm. Stonesifer, 570 No. Kenmore, Los Angeles, 4, Calif.

WANTED—HI-STANDARD, WOODSMAN, COLT Officers' Model, S&W Outdoorsman. J. Duffy, 1321 Delafield Place, N. W., Washington, D. C.

WANTED—B&M POWDER MEASURE, PACIFIC scales, must be good. Frank P. Glass, Life Member, Sentinel Star, Orlando, Florida.

WANTED—WINCHESTER 75 SPORTER, ALSO model 70 National Match or Target 30-06. Fred A. Weir, Box 453, Silver City, N. Mex.

WANTED—EXCELLENT 45 FRONTIER WITH 45 ACP cylinder, 45 1911, 25 Automatics. 39A Marlin. Gowen, 322 Plant, Tampa, Florida.

WANTED—FOR CASH—38 SPECIAL REVOLVER, Smith, Colt. .22 caliber long rifle, bolt action rifle. Springfield 30-06 Sporter. Give prices, models, condition, must be willing to shop c.o.d. Ken Pool, 2706 West 78th St., Inglewood, California.

WANTED—HIGH GRADE BELGIAN BROWNING Automatic. Vent. rib, Sweet Sixteen preferred, perfect. John R. Olmsted, 5702 Admiral Way, Seattle, 6, Washington.

WANTED—COLT NEW SERVICE, 357 MAGNUM or 38 Special, Colt Woodsman Match Target, Colt Officers Model, 38 Special, Mattern's Handloading Book, Potter revolver rest, potter lead tester. John Harger, 1704 North "A" Street, Tampa, 6, Florida.

WANTED—'97 WINCHESTER 12 GA. V.G. BETter, 25 caliber bullets, 87, 100 grs. Walter Whitcomb, Gladstone, Oregon.

WANTED—TWELVE GAUGE AMMUNITION, Winchester model 12 trap, pistol grip, also 70 Hornet, must be like new and at fair prices. D. D. Green, 100 South Carol Blvd., Upper Darby, Penna.

WANTED—LYMAN ALASKAN ALL-WEATHER scope with Stith factory mount. Robert Benbow, Garberville, California.

WANTED—POTTER DUPLEX RELOADER WITH 38 Special and Hornet dies, or will take just the Hornet dies. Peter Benic, 1303 Tinkers Creek Rd., Bedford, Ohio.

WANTED—BROWNING OVER-UNDER, LIGHTning model, single trigger, improved cylinder, modified, 26" barrels, ventilated rib, state condition and price. Perry Smith, Oceanport, New Jersey.

WANTED—BENJAMIN AIR PISTOL, STATE price. David Wood, 260 Ninth Ave., New York City, N. Y.

WANTED—M70, 270 CALIBER, EXCELLENT, will trade 380 rounds .270 factory ammunition to apply on M 70 in .257, or 300 Magnum with ammunition. Reginald E. Baker, Doty, Washington.

WILL BUY HORNET AMMUNITION, OR TRADE new model 94-32 Special. Lt. William T. Hutchins, Gore Field, Great Falls, Montana.

WANTED—JEWELERS LATHE, VERY GOOD OR better, examination privileges. C. Hope, 2010 West 5th Ave., Gary, Indiana.

WANTED—200 NEW FA 30-06 CASES, LYMAN Alaskan scope without base. Two cases 12 ga. shells, Super X or Remington, one No. five shot, one six. Life Member. T. H. Smith, 1520 Cleveland Place, Denver, 2, Colorado.

WANTED—PERFECT OR EXCELLENT WINchester heavy 12-12-30 full, 3" chamber. R. E. Herman, 10 South LaSalle Street, Chicago, Illinois.

WANTED—ONE .45 CALIBER SCOFIELD S&W revolver—state condition and price. R. Van Hoosear, 151 Bay Shore Blvd., San Francisco, 24, California.

WANTED—30-06 SPRINGFIELD OR ENFIELD as issued, also bayonets. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

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WANTED—RIFLES, REVOLVERS, SHOTGUNS, serviceable condition, with ammunition preferred. Stamp. Adrien Grenier, North Grosvenordale, Conn.

WANTED—SUPER IKONTA B, FOR CASH, OR trade Super C, guns, or sixteen gauge shells. R. P. Haun, Coleman, Texas.

WANTED—WILL TRADE FOR .22 SHORTS, have 100 rounds fresh Super X 170 gr. 30-30—200, 30-06 Govt. 1927, 1937-38 ammunition plus 100 rounds 1930 Natl. Match in excellent condition. L. F. Jerome, 203 Maryland Ave., Parkland, Bennings, D. C.

WANTED—HI-GRADE BROKEN OR WRECKED guns of all kinds, especially want extra barrels for Lefevers, L. C. Smith & Remington, all gauges. Arthur W. Plumlee, Cambria, Illinois.

WANTED—SCHUETZEN RIFLES AND ACCESsories, Stevens, Bullard, Ballard and Winchester. Reed Thompson, Jr., Lewistown, Penna.

WANTED—.22 W.R.F., .22 HORNET IN ANY amount, ceiling price, also 8X Winchester scope. Lt. Comdr. Callar, N.T.S. Bainbridge, Maryland.

WANTED—BAUSCH & LOMB OR ARGUS SPOTting scope; Lyman or Fecker target scope, any power. W. P. Klapp, Paoli, Pennsylvania. 1-45

WANTED—IDEAL NO. 3 RELOADING TOOL, with all necessary accessories, for Hornet. Want few boxes Hornet factory loads. H. Y. Albee, 837 South Main, Centerville, Iowa.

WANTED—.22 L.R. AMMUNITION FOR CLUB use. State quantity and price. Douglasair Rod & Gun Club, Daggett, California.

WANTED—JAPANESE RIFLE OR PISTOL. State type, price. Richard Friedrich, E Commerce Street, San Antonio, Texas.

WANTED 45 D.A. S&W OR COLTS 7½" TO 10" barrel, good grade .22 L.R. Automatic, good or better Sell or trade 45 Colts Automatic stag handles, holster, ammunition, good, $55.00. J. H. Gates, Box 404, Needles, California.

WANTED—PRIMERS AND BULLETS FOR .220 Swift and .270, also a perfect 70 Hornet. I. A. Hutchison, Panama City, Florida.

WANTED—2R LOVELL RIFLE WITH DIE, Model 70 Winchester preferred, excellent or better, also Winchester 70 Hornet barrel. Paul Maier, Middlefield, Conn.

WANTED—GOOD WINCHESTER SS HI-WALL action, Colt SA. action good, barrel immaterial, .32 ACP, .22-.45 Conversion unit, Lyman 438 with mounts and bases. All letters answered. Life member. Major H. M. Ogan, Jr., Box 1328, Midland, Texas.

WANTED—MODEL 70—22 HORNET BARREL, must be excellent. Ideal Hornet tool. E. F. Ziemer, Sheridan, Wyoming.

WANTED—SEVERAL NUMBER 5 AND NUMber 6 Newhouse Bear traps, also .375 bullets. George N. Lathrop, Bristol, Vermont. 7-44

WANTED—26" MEDIUM OR HEAVY .22 CALiber barrel, any 9mm. 35 caliber, (.358) rifle barrel, bullet pullers, case trimmers. L. E. Norman, 1366 F St., N. E. Washington, D. C.

WANTED—UNFIRED STAR GAUGED SPRINGfield as issued above 1,400,000. Star gauged barrel. Trade 61 for 45 S.A.A. A. J. Bennett, 1210 Central Avenue, Louisville, 8, Kentucky.

WANTED—ENFIELD, SPRINGFIELD FOR THE actions, Remington Model 12 or 121. Remington Model 14 or 141, 30-32 or 35 caliber, 6 power binoculars, good or better. Full details. Howard Stout, Rt. #4, Hillsboro, Oregon.

WANTED—SAVAGE 99-300 CALIBER, VERY good to perfect, scope, dies, components optional, fair price, member. G. R. Smathers, 320 W. Kingston Ave., Charlotte, N. Car.

WANTED FOR CASH: .22 CALIBER RIM FIRE ammunition, also two 13mm. Mauser Anti-Tank rifles, will buy fine 52S and 37S with scopes and a large amount of ammunition for each rifle. Want all kinds of chambering and finishing reamers, no trades, cash only, write me first, prices must be within reason. World War Veteran, Life Member, Capt. Howard J. Knutson, P.O. Box 1313, El Centro, California.

WANTED—REMINGTON MODEL 31A, 5 SHOT pump, 12 gauge with Aeromet receiver (6½ lb. model) and raised solid rib, preferably Cutts equipped. Give details. Savage 99-T featherweight —7 lb.—solid frame in .300 caliber, not interested in heavier model or different caliber. Give details. King Luminous #90 bead front sight with detachable hood for 99 Savage. Redfield Series 70 micrometer rear sights with Hunter knobs, one each, in B.H. & E.H. & L.H. models. Dallas L. Sharp, Jr., 24 Oak Grove Ave., Springfield, 9, Mass.

WANTED—.386 HOLLOW BASE BULLET mould for Colt 41 long. Henry Hughes, 5531 Drexel Avenue, Chicago, 37, Illinois.

WANTED—220 SWIFT CARTRIDGES OR BULlets and primers for same. A. F. Mechling, 107 Urania Ave., Greensburg, Penna.

WANTED—6.5 MANNLICHER & CARTRIDGE 30-06. Trade or sell excellent K22, $75.00. Excellent Colt & S&W 38's, $65.00. W. J. Staudte, 5238 Milwaukee Ave., Chicago 30, Illinois.

WANT—STANDARD 52 SLOW OR SPEED LOCK. Winchesters 57, 69, or 75 for preinduction and junior training. Aitken, Overly, No. Dak.

WANTED—10 GAUGE MAGNUM WITH AUTO. ejectors and shells, prefer field grade. W. J. Dawson, Milltown, Wisconsin.

WANTED—COLT OFFICERS' MODEL .22. State price condition and barrel length. Wm. Pregler, 1628 Adams, Madison, Wisconsin.

WANTED—SEVERAL 13 OZ. CANISTERS KINGS Semi-Smokeless powder FG. C. R. Arthur, Thebes, Illinois.

WANTED—32 REVOLVERS ANY MAKE OR condition. Trades invited for guns, ammunition. Write full details. Hagaman, Route Two, Ashburn, Georgia.

WANTED—.32 AND .25 COLT BARRELS, PERfect, 35 Lyman, good or better, Complete 8mm. Mauser bolt excellent. Rex Gun Shop, Odessa, Texas.

WANTED—WINCHESTER 52 SPORTER, VERY good or better inside, outside & sights immaterial, also Krag or Krag action. 30-40 ammunition. Lt. Sterling Murdock, Benicia Arsenal, Benicia, California.

WANTED—MAUSER 98 ACTIONS, ISSUE rifles, parts, 45 C.A. 30-06 .30-40 M.C. ammunition. State condition, price. Flaig's, Hunters Lodge, Millvale, Penna.

WANTED—.44-45 FRONTIER COLTS OR REMington. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

WANTED—WILL PAY CEILING PRICE FOR .22 caliber ammunition, shotgun shells. Adrien Grenier, North Grosvenordale, Conn.

WANTED—IN REASONABLE PRICE, 52 WINchester Sporter, speedlock, with ammunition, also 30-06 rifle preferable Winchester Model 70. Jesus E. Andrade, P.O. Box 363, El Paso, Texas.

WANTED—*ANYWHERE IN U. S.*—Will promptly buy antique firearms. Fair prices, minimum effort for seller. James Serven (Life Member), Santa Ana, California. tf

WANTED—SEVERAL 22 CALIBER REVOLVERS break open or young American type, any condition Charles Erich, 9412 Monroe Avenue, Brookfield, Illinois.

WANT—8X30 OR 40 BAUSCH & LOMB OR Zeiss binocular, will answer. Ralph Nobles, Box 1663, Santa Fe, New Mexico.

WANTED—TWO WINCHESTER M94 ACTIONS or complete rifle. Wood and barrel immaterial. Ed Howe, Coopers Mills, Maine.

WANTED—MALCOLM "C" OR "C" DETACHable mounts. H. H. Mueller, 417 W. Yandell, El Paso, Texas.

WANTED—SPRINGFIELD, ENFIELD OR MAUser actions, good or poor barrels. Large rifle primers, Mershon butt pads. L. H. Brown, R.F.D. #2, Box 158, St. Joseph, Michigan.

WANTED—WINCHESTER M70 .300 H&H MAGnum and ammunition. Gun must be new or in perfect condition. If necessary will trade .300 Savage M99, excellent, with ammunition, for Magnum. Glen L. Hattendorf, Ocheyedan, Iowa.

WANTED — WINCHESTER LEVER ACTION model 71 caliber .348. Ralph Dittmann, 427 Bender Road, Milwaukee, Wisconsin.

WANTED—WINCHESTER, MODEL 21, THREE inch Wildfowl gun, SST, ejector. Dr. Sutton, 5400 Ward Parkway, Kansas City, Missouri.

WANTED—STEEL FISHING ROD, STATE CONdition and price. C. Brockman, 466 Kimball Avenue, Yonkers, 4, N. Y.

WANTED—WINCHESTER MODEL 64 OR 94, 32 Special, 24 or 26 inch barrel, must be worth the money. William Dillehay, Box 3511, Phoenix, Arizona.

WANTED—COLT .38 SPECIAL OMT FOR OVERseas combat duty. Cpl. Jim Saito, Co. C, 33rd Tn. Bn., Fort McClellan, Alabama.

WANTED—MODEL 70 STANDARD WINCHESter Hornet and some ammunition. F. J. Wood, Ulster Park, N. J.

WANTED—S&W KIT GUN, MUST BE VERY good or better, any amount .56 Spencer rim-fires, No. 7 primers, .45 Colt empties, 45 Colt single actions, Bisleys, any condition, but prefer good or better. Robert Johnson, Life member, 1241 Sigsbee, Grand Rapids, 6, Michigan.

WANTED—MODEL 70 OR REMINGTON 720, IN 30-06 or 300 Magnum, K22 or OMT .22 caliber. Frank Rachetto, 8673 Rutland, Detroit, 10, Michigan.

WANTED — PUPPIES, CANARIES, TROPICAL fish, pet supplies, breeders. Write to M. R. Cohen, 230 W. 125th St., New York City.

WANTED—OLD AND NEW GUN CATALOGS and old hunting and gun magazines, both American and Foreign, also old Leslies Weekly, Harpers, etc. Want Marlin 39 rifle and .22 shot shells, also 7.65 Luger cartridges. State condition and prices. F. R Guy, Box 97, Montgomery, Alabama.

WANTED—COLT WOODSMAN WITH 4½" BARrel. Must be excellent or better. Sell S&W Kit Gun, excellent, $60.00. Jerome Gilson, Box 304, Fredonia, Wisconsin.

WANTED — 22 STEVENS PISTOL, TIP-UP model, 4 inch barrel, preferred. W. G. Perkins, Prescott, Iowa.

WANTED—257 ROBERTS AND 30 (7.65) LUGER cartridges. WILL BUY OR TRADE—Have .30-30 and .25-20 ammunition to trade only. WANT—S&W .38-44 heavy duty, 4 inch barrel, S&W or Colt .38 Special, 2 inch barrel, very good to perfect. Will pay reasonable prices only. C. A. Carr, Box 308 Grand Prairie, Texas.

WANTED—SINGLE ACTION COLT. PREFER .38 Special. Must be factory perfect. Hornet factory ammunition Sisk bullets, primers and complete reloader. Clyde Kennedy, 11768 Wyoming, Detroit 4, Michigan.

WANTED—LATE 8MM MAUSER OR '98 KAR action. Lt. L. W. Pollard, Ordnance Research Center, Aberdeen, Maryland.

WANTED—SWK 22 OR COLT OFFICERS' Model, several Parkerhale eyepieces with lens clips. All excellent to perfect only. Edmund McLaurin, 114 North Sixth Street, Wilmington, North Carolina.

WANT—PERFECT MODEL 70, 7MM CALIBER also Weaver 330C, tapered post with crosshairs. D V. Dixon, Dalhart, Texas.

WANT—FOREIGN MILITARY LIGHT MACHINE guns. Frommer and Spanish military pistols. D. L Smith, 17301 Wisconsin, Detroit, Michigan.

WANTED—IDEAL SIZER AND LUBRICATOR for .38 Special adjustable powder measure, scale, etc. C. Cruikshank, 2035 Broadway, Gary, Indiana

WANTED—COLT, MUZZLE LOADING REvolver, weighing over four pounds. Ira J. Moody, McGregor, Iowa.

WANTED—6X SCOPE, 10X BINOCULARS, ENfield, .25 caliber bullets. TRADE—22 Sportsman, factory condition $38.00. 30 caliber mushroom bullets, .319 die, some ammunition, elk teeth. R. Beckman, Denton, Montana.

WANTED—SAVAGE AUTOMATIC 12 GAUGE shotgun, new lightweight model, with aluminum frame. Fred Wehman, Box 415, Charleston, S. C.

WANTED—MODEL 70, .257, EXCELLENT CONdition, Standard grade, primers, components. Ernest Roux, 727 Baker Street, Bakersfield, California.

WANTED—BROWNING OVER & UNDER, Standard model, trap stock, ventilated rib with modified and full choke. Robert Fisher, 4110 Forest, Des Moines, Iowa.

WANTED—IDEAL NO. 5 POWDER MEASURE. Ideal reloading tool d.a. chamber .45-70. Ideal mould .45-70 330 gould hollow point. Dr. E. W. Messinger, 512 Exchange Building, LaCrosse, Wisconsin.

WANTED—PERFECT SHOOTING MASTER OR S&W Magnum .357, 4½ to 6" barrel. Perfect Fecker or Unertl small game scope with click mounts. Perfect Service Model Ace. Lt. Van T. Smith, Naval Air Station, Whidbey Island, Washington.

WANTED—7MM. SPORTER OR TARGET BARrel for 70 Winchester, new or fired once .401 S.L. cases, Cramer #9 mould for .38-40. E. J. Krueger, Cody, Wyoming.

WANTED—2R CASES, SISK OR OTHER 224 bullets, any weight, small rifle primers, Wilson tools for 30-06, 220, 38 Special, 45 Colt. I can trade for the above some 22 L.R., Potter Electric Furnace, a few Swift cases, an Ideal tool, and some cases for Krag, or will buy for cash. Dr. Wm. Parker, Box 98, Coachella, California.

WANTED—.300 H&H MAGNUM, COMPONENTS or ammunition. M70 preferred, also 87 or 100 grain .257 bullets. Will buy or trade Pacific scale & weights or Sisk bullets. Give details. Lowell Wood, Route #4, Idaho Falls, Idaho.

WANTED—.32 S&W LONG (NEW POLICE) cases fired once. Must be in good condition. State quantity and price. L. E. Daly, 6001 Georgia Ave., N. W., Washington, 11, D. C.

WANTED—IDEAL LOADING MACHINE #2, crimper, trimmer, resizing dies. Ideal and Bond lubricators, dies, moulds, gas checks, empties, scales, Redfield 70LH. Wm. J. Ashe, 635 Belden Ave., Chicago, 14, Illinois. 7-44

WANTED—200, 2R LOVELL OR 25-20 SS CASES, primed or unprimed. Will pay fifty cents each for one copy each of AMERICAN RIFLEMAN Aug. 39, Feb. 42, May 42, May 43. A. A. Sproul, 822-13th St., Golden, Colorado.

WANTED—WINCHESTER HIGH SIDE ACTION or 2R Lovell, complete outfit, tools, components, scope, cash. Trade 25 caliber Automatic pistol, ammunition & holster. 22 ammunition Redfield mounts. Jack Sheridan, 117 Furman, Schenectady, 4, N. Y.

WANTED—FOR CASH, AMMUNITION, ANY quantity, all calibers. Write, Public Sport Shops, Dept. R-72, 13 S. 16th St., Philadelphia, Penna.

WANTED—25-20 CARTRIDGES FOR WINchester repeating rifle. H. A. Brand, 1008 Ingalls Building, Cincinnati 2, Ohio.

WANTED—OBSOLETE AND ANTIQUE FIREarms in working condition. Single items or entire collection. H. A. Brand, 1008 Ingalls Building, Cincinnati 2, Ohio. 5-45

WANTED—K22 FOR TRAINING PLANT guards. L. C. Hitch, c/o Aluminum Co., Alcoa, Tennessee.

WANT—REMINGTON, WINCHESTER OR SAVage 22 L.R. repeating rifle. Ralph Nobles, Box 1663, Santa Fe, New Mexico.

WANTED—22 SHORTS, LONGS, LONG RIFLE ammunition. Pay ceiling prices. George LaMarr, 2205 Boardwalk, Atlantic City, N. J. 8-44

WANTED—FOR CASH: 44 COLT AND REMINGton percussion revolvers, poor to fine. Robert Abels, 860 Lexington Avenue, New York, 21, N. Y. 1-45

WANTED—LYMAN SUPER-TARGETSPOT, 10X or 12X, excellent or better. Rex Gun Shop, Odessa, Texas.

WANTED—GAS CHECKS ALL CALIBERS. C. P. Beals, RR 8, North Kansas City, Missouri.

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